CONSTRUCTION NEWS

PERSONALS, ENGINEERING SOCIETIES, ENGINEERING SCHOOLS, READERS' WANTS, INDUSTRIAL NOTES, PUBLICATIONS.

Supplement to ENGINEERING NEWS. New York, August 4, 1904.

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PERSONAL.

Mr. Charles W. Powers has been elected Superintendent of the water department of Bloomfield, N. J.

Mr. Adolph C. Goller has been appointed Superintendent of Egg Harbor, N. J., Water Co.'s plant.

Mr. A. L. Pond has been reappointed Superintendent of the water-works and electric light plant of Coldwater, Mich.

Mr. A. L. Dabney has been elected Manager of the water-works, sewerage and electric light plants of Greenwood, Miss.

A. S. Fairbanks, civil engineer and architect, has opened an office at 150 Nassau St., New York, and will make a specialty of paper and pulp mill construction and hydraulic development.

Mr. O. W. Shelly has severed his connection with the Engineering Department of the J. W. Ferguson Co., general contractors, to accept a similar position with Milliken Bros., 11 Broadway, New York.

Mr. Halbert S. Kerr has resigned the position of General Superintendent of the San Pete Valley Ry., with headquarters at Manti, Utah, and has accepted an appointment as General Manager of the Cerro de Pasco Ry. of Peru.

Mr. G. E. Suck, Treasurer of the Brady Construction Co., Fairmont, W. Va., informs us that Mr. E. A. S. Whitford, formerly Superintendent of the Pettaconsett Construction Co., Providence, R. I., has been engaged as General Superintendent.

Prof. F. G. Frink, Assoc. M. Am. Soc. C. E., has recently been appointed Assistant Professor of Civil Engineering in the University of Illinois. Professor Frink graduated at the University of Michigan in 1886, and has held a number of positions, both practical and pedagogical, the last being Instructor in Structural Engineering in the University of Michigan.

Mr. F. H. Shaw has been appointed Engineer of the Special Sewer Commission of Lancaster, Pa., and will have charge of the construction of a system of intercepting sewers. Mr. Shaw was formerly Assistant Engineer with the Metropolitan Water and Sewerage Board, of Boston, Mass., but for the last year has been in charge of the improvements in the Lancaster water supply, under Samuel M. Gray, Consulting Engineer.

The field work in Hydrology in the Western States, under supervision of the U. S. Geological Survey, will be taken up as follows: Mr. N. H. Darton, Geologist in charge of the Western Section of Hydrology, left June 20 for the field to supervise the work of assistants in various parts of the West. He will visit a number of dam sites, and will also spend several weeks in the Black Hills and in Southeastern Colorado. Investigations of underground waters will be made in Nevada, Idaho, Arizona and New Mexico. Mr. W. C. Mendelhall will continue investigations of the underground water resources and geology of southern California, and Mr. C. E. Siebenthal, Assistant Geologist, will continue his examination of the San Luis artesian basin, Colorado. Later on he will investigate the prospects for artesian wells in the Uncompahgre Valley and at the end of the season will examine the prospects for obtaining deep seated waters in the area at Denver. Mr. C. A. Fisher will continue his studies of the geology and underground water resources of the Bighorn Basin, in northern Wyoming, and will also examine the coal deposits and determine the prospects for oil and gas in that region. Mr. G. B. Richardson is to study the artesian problems in the eastern part of the Salt Lake Basin, in Utah. During the first part of the season Mr. Richardson will finish his work on the geology and waters of El Paso, Texas, with the view of completing a geologic folio on the El Paso quadrangle. Mr. Willis T. Lee will make a reconnaissance of Owens Valley, California, and later in the season he will continue his observations in the Gila Valley, Arizona.

OBITUARY.

Joseph M. Dodd, the oldest practicing architect in the Oranges, died at his home in East Orange, N. J., July 29. He had been an architect for over 40 years.

Rear-Admiral Henry Clay Taylor, Chief of the Bureau of Navigation of the U. S. Navy, died at Sudbury, Ont., July 26, of peritonitis. He was born in Washington in 1845, entering the Naval Academy in 1860. He served in the Civil War. In the war with Spain he commanded the Battleship "Indiana" and took part in the destruction of Cevera's fleet at Santiago. In 1902 he was appointed Chief of the Bureau of Navigation.

ENGINEERING SOCIETIES.

COMING MEETINGS.

CONNECTICUT SOCIETY OF CIVIL ENGINEERS.
Aug. 10, 1904. Annual meeting at New Haven, Conn. Secy., J. F. Jackson, New Haven, Conn.

CENTRAL STATES WATER-WORKS ASSOCIATION.
Aug. 16, 17, 18, 1904. Annual convention at Toledo, O. Secy., W. A. Veach, Newark, O.

SOCIETY FOR THE PROMOTION OF ENGINEERING EDUCATION.
Sept. 1, 2, 3, 1904. Annual meeting at St. Louis, Mo. Secy., C. A. Waldo, Lafayette, Ind.

SOCIETY OF CHEMICAL INDUSTRY.
Sept. 7 to 12, 1904. Annual meeting at New York, N.Y. Gen'l Secy., C. G. Cresswell, 9 Bridge St., Westminster, London. Secy., New York Section, T. J. Parker, 25 Broad St., New York.

INTERNATIONAL ELECTRICAL CONGRESS.
Sept. 12 to 16. At St. Louis, Mo. Secy., A. E. Kennelly, Harvard University, Cambridge, Mass.

ROADMASTERS' AND MAINTENANCE-OF-WAY ASSOCIATION.
Sept. 13, 14, 15. Annual meeting at St. Louis, Mo. Secy., C. E. Jones, Beardstown, Ill.

AMERICAN INSTITUTE OF ELECTRICAL ENGINEERS.
INSTITUTION OF ELECTRICAL ENGINEERS. (Great Britain.)
Sept. 14, 1904. Joint convention at St. Louis, Mo. Secy. Am. Inst. Elec. E., R. W. Pope, 95 Liberty St., New York.

AMERICAN INSTITUTE OF MINING ENGINEERS.
Sept. 14 to 21. Annual convention at Duluth, Minn., and Houghton, Mich. Secy., R. W. Raymond, 99 John St., New York.

INTERNATIONAL ENGINEERING CONGRESS.
Oct. 3 to 8, 1904. Held at St. Louis, Mo., under the auspices of the American Society of Civil Engineers. Secy., Chas. Warren Hunt, 220 W. 57th St., New York.

AMERICAN BOILER MANUFACTURERS' ASSOCIATION
Oct. 4, 5, 6, 1904. Annual convention at St. Louis, Mo. Secy., J. D. Farasey, Forest St. and Erie Ry., Cleveland, O.

AMERICAN SOCIETY OF MUNICIPAL IMPROVEMENTS.
Oct. 4, 5, 6, 1904. Annual meeting at St. Louis, Mo. Secy., G. W. Tillson, Municipal Building, Brooklyn, N. Y.

AMERICAN STREET RAILWAY ASSOCIATION.
AMERICAN RAILWAY MECHANICAL AND ELECTRICAL ASSOCIATION.
STREET RAILWAY ACCOUNTANTS' ASSOCIATION.
Oct. 10 to 15, 1904. Annual meetings at St. Louis, Mo.

RAILWAY SIGNAL ASSOCIATION.
Oct. 11. St. Louis, Mo. Secy., B. B. Adams, 83 Fulton St., New York.

ASSOCIATION OF RAILWAY SUPERINTENDENTS OF BRIDGES AND BUILDINGS.
Oct. 18, 19, 20. Annual meeting at Chicago. Secy., S. F. Patterson, Concord, N. H.

AMERICAN GAS LIGHT ASSOCIATION.
Oct. 19, 20, 21, 1904. Annual meeting at Washington, D. C. Secy., A. E. Forstall, 58 William St., New York, N. Y.

IRON AND STEEL INSTITUTE (Great Britain).
Oct. 24 to 26, 1904. Annual meeting at New York City. Secy., B. H. Brough, 28 Victoria St., London, S. W.

WYOMING ENGINEERING SOCIETY.—It is reported from Cheyenne that the organization of a state society of engineers and surveyors is actively in progress. It is intended to unite all branches of engineering in the society: mining, railway, irrigation engineers, surveyors, etc.

CENTRAL STATES WATER-WORKS ASSOCIATION.—The headquarters for the coming Eighth Annual Convention at Toledo, O., will be the Boody House. Ample space is here available for exhibitors, free of charge. The Boards of Public Service of Ohio will meet with the Association, and questions of importance in the administration of their official duties will be fully considered in papers and addresses. Secy., Wm. Allen Veach, Newark, O.

SOCIETY FOR THE PROMOTION OF ENGINEERING EDUCATION.—The annual meeting, Sept. 1 to 3, will be held in the Education Bldg. of the Louisiana Purchase Exposition, St. Louis, Mo. No definite hotel headquarters have been selected, but probably the "Inside Inn" will be most convenient for this purpose.

Besides the presidential address of Prof. C. F. Allen, papers are expected from John F. Wallace, A. E. Burton, I. N. Hollis, H. S. Monroe, E. R. Maurer, L. M. Hoskins, A. Marston, A. Kenyon, B. F. Groat, E. H. Powell, J. G. D. Mack, A. C. Humphreys, E. A. Engler, A. N. Talbot and others. Besides the usual standing committees, it is expected that the special committee on Mr. Waddell's recommendation for a history of engineering will report. Secy., C. A. Waldo, Lafayette, Ind.

INTERNATIONAL ENGINEERING CONGRESS.—The general program for the congress to be held at St. Louis, Mo., October 3 to 8, 1904, is as follows:

Monday, Oct. 3, 10 a. m., general meeting of the Congress. Tuesday to Friday, Oct. 4 to 7, inclusive, at 10 a. m., meetings of all sections. Saturday, Oct. 8, at 10 a. m., general meeting of the Congress.

The general meetings will be held in Convention Hall, Administration Bldg., Louisiana Purchase Exposition. The meetings of the various sections are to be held in separate rooms in the Administration Building and vicinity. The presiding officers of the sectional meetings will be:

Section A, Waterways: Mr. Alfred Noble, Past-President Am. Soc. C. E.
Section B, Municipal: Mr. J. J. R. Croes, Past-President Am. Soc. C. E.
Section C, Railroads: Mr. Robt. Moore, Past-President Am. Soc. C. E.
Section D, Materials of Construction: Mr. F. P. Stearns, M. Am. Soc. C. E.
Section E, Mechanical: Mr. Wm. Metcalf, Past-President, Am. Soc. C. E.
Section F, Electrical: Mr. F. J. Sprague, M. Am. Soc. C. E.
Section G, Military and Naval: Brig.-Gen. W. P. Craighill, Past-President Am. Soc. C. E.
Section H, Miscellaneous: Mr. O. Chanute, Past-President Am. Soc. C. E.

Over fifty of the papers promised for the Congress have already been received, and as many more are expected. These will all be printed in advance and distributed to those who intend to discuss them. Copies will be available also at the meeting-rooms of the Congress.

ENGINEERING SCHOOLS.

NEW MEXICO SCHOOL OF MINES.—The school has recently purchased a mine for the purpose of giving students practical demonstrations, in timbering, drilling, blasting, etc. In other words, the school will have a mine for one of its laboratories.

RHODE ISLAND COLLEGE OF AGRICULTURE.—A four-years' course in Highway Engineering, leading up to the degree of Bachelor of Science in Highway Engineering, is now offered. Dr. L. I. Hewes will be at the head of the Department of Highway Engineering.

CONSTRUCTION NEWS.

PLANS AND SPECIFICATIONS ON FILE.

The following Plans (P.), Specifications (S.), and Bidding Sheets (B. S.), may be seen at the office of The Engineering News Publishing Co., 220 Broadway, New York:

Bids close	Work.	Place.	On file.	See issue.
6	Brick bldg.	Boston, Mass.	S.	7-21
6	Shops, bldg.	Pensacola, Fla.	S.	7- 7
8	Paving, brick.	Bluffton, O.	S. & B. S.	7-21
*10	Sewage works.	Columbus, O.	P. & S.	7-21
*10	Stand-pipe.	Attleboro, Mass.	P. & S.	7-21
*10	Conduit material.	Baltimore, Md.	S.	7-28
*10	Wtr & l't plnts.	Springfield, Tenn.	P. & S.	7-28
*12	Wreck removal.	Boston, Mass.	S.	7-21
*15	Shore protection.	Richmond, Va.	S.	7-21
*15	Sewers.	Washington, D. C.	S. & B. S.	7-21
*15	Canal, etc.	Port Huron, Mich.	S. & B. S.	7-28
17	Drainage ditch.	Brodhead, Wis.	S. & B. S.	7- 4
*20	Wreck removal.	Wilmington, Del.	S.	7-21
20	Building.	Portsmouth, N. H.	S.	8- 4
27	Dry-dock.	New York, N. Y.	S.	7-14
*27	Water system.	Prescott, Ariz.	P., S. & B. S.	7-28
Sept.				
*6	Dam, etc.	Roswell, N. Mex.	S.	7-21
Dec.				
*1	Bridge.	Manila, P. I.	P., S. & B. S.	7-28

*Work advertised in Engineering News.

NOTE.—We are desirous of securing specifications and bidding sheets (and plans when not too bulky) of pending work for file in our New York office for the benefit of contractors or others who may be interested in the work. If more sets than one are sent us we shall be pleased to distribute these to contractors who ask for them. When the work is advertised in Engineering News a note that the plans are filed with us will be added to the advertisement without cost.

LIST OF CONTRACTS PENDING.

Bids close. Work. Place. See issue.

LIGHT, HEAT AND POWER PLANTS.

Aug. 8. Power house, Lancaster, Pa. .... July 28
Advertised, Eng. News, July 28.
Aug. 12. Electric franchise, Eureka, Cal. .... July 28
Aug. 15. Power house, Moose Jaw, Assa. .... July 28
Aug. 15. Gas producer plant, New Orleans, La. .... Aug. 4
Aug. 22. Electric plant, Burlington, Vt. .... July 28
Aug. 22. Electric light plant, Thomson, Ga. .... Aug. 4
Advertised, Eng. News, Aug. 4 to 25.
Aug. 26. Wiring, etc., Ft. Des Moines, Ia. .... Aug. 4
Aug. 31. Canal power, Chicago, Ill. .... July 14
Sept. 1. Electric wiring, Norwich, Conn. .... Aug. 4

BRIDGES.

Aug. 4. Culvert, concrete, Des Moines, Ia. .... July 21
Aug. 4. Bridges, Brownstown, Ind. .... July 21
Aug. 4. Bridge, Goldendale, Wash. .... July 28
Aug. 5. Bridges, stone, Washington, D. C. .... July 28
Aug. 5. Bridge, Washington, D. C. .... Aug. 4
Aug. 5. Bridges, Portland, Ind. .... Aug. 4
Aug. 6. Bridge superstrctre, Sault Ste. Marie, Mich. .... Aug. 4
Aug. 6. Bridge, abutments, Marshall, Minn. .... July 28
Aug. 6. Bridge, steel, Marion, Ind. .... July 14
Aug. 8. Bridge, Glasgow, Mont. .... July 21
Aug. 8. Bridges, steel, Wabash, Ind. .... July 21
Aug. 8. Bridge, Eureka, Cal. .... Aug. 4
Aug. 8. Bridges, Newark, N. J. .... Aug. 4
Aug. 8. Bridges, Plattsburg, Mo. .... Aug. 4
Aug. 9. Bridge, Napa, Cal. .... Aug. 4
Aug. 9. Bridge, Indianapolis, Ind. .... July 21
Aug. 9. Bridge, Steamboat Springs, Colo. .... July 21
Advertised, Eng. News, July 21 to Aug. 14.
Aug. 11. Bridge, superstructure, Boston, Mass. .... Aug. 4
Aug. 12. Bridge, Spokane, Wash. .... Aug. 4
Aug. 15. Bridges, concrete, Rockport, Ind. .... July 28
Aug. 15. Bridge, steel, Atlanta, Ga. .... July 28
Aug. 15. Bridge, Port Huron, Mich. .... Aug. 4
Aug. 15. Bridge, Ukiah, Cal. .... Aug. 4
Aug. 16. Bridge, Cortland, N. Y. .... Aug. 4
Aug. 16. Bridges, Ottawa, Kan. .... July 28
Aug. 18. Bridge, South Bend, Ind. .... July 28
Aug. 22. Bridge, Newport, Ind. .... Aug. 4
Aug. 24. Bridges, Paulding, O. .... Aug. 4
Aug. 25. Bridges, Buffalo, N. Y. .... Aug. 4
Dec. 1. Bridge superstructure, Manila, P. I. .... July 28
Advertised, Eng. News, July 28 to Dec. 1.

BUILDINGS.

Aug. 4. Court house, Winona, Miss. .... July 21
Aug. 4. Post office bldg., Hutchison, Kan. .... July 7
Aug. 4. Jail, etc., Brownstown, Ind. .... July 28
Aug. 4. Building, Cleveland, O. .... July 28
Aug. 5. School, West Bay City, Mich. .... Aug. 4
Aug. 6. School, Cleveland, O. .... Aug. 4
Aug. 6. Shops, building., Pensacola, Fla. .... July 7
Aug. 6. Brick bldg., Boston, Mass. .... July 21
Aug. 8. Post office, Pekin, Ill. .... July 7
Advertised, Eng. News, July 7 to 21.
Aug. 8. Hospital, Sheridan, Wyo. .... July 28
Aug. 8. Electric wiring, Portland, Me. .... Aug. 4
Aug. 8. City hall, Astoria, Ore. .... Aug. 4
Aug. 8. School, Kendallville, Ind. .... Aug. 4
Aug. 9. School, Plainfield, N. J. .... Aug. 4
Aug. 9. Gymnasium, Fort Mackenzie, Wyo. .... Aug. 4
Aug. 9. Court house, Two Harbors, Minn. .... July 28
Aug. 10. School, Alhambra, Cal. .... Aug. 4
Aug. 10. Town hall, Copley, O. .... Aug. 4
Aug. 10. Building, Peoria, Ill. .... July 28
Aug. 11. Partitions, plumbing, New York, N. Y. .... July 28
Aug. 12. Library, Cleveland, O. .... July 28
Aug. 12. Iron stairways, etc., Buffalo, N. Y. .... Aug. 4
Aug. 15. Court house, Amarillo, Tex. .... Aug. 4
Aug. 15. Library, Ripon, Wis. .... Aug. 4
Aug. 15. Electric wiring, Lawrence, Mass. .... July 28
Aug. 15. City hall, Moose Jaw, Assa. .... July 28
Aug. 15. School, East St. Louis, Ill. .... July 21
Aug. 16. Court house, Somerset, Pa. .... July 28
Aug. 17. Armory, Xenia, O. .... July 28
Aug. 17. Infirmary, Cincinnati, O. .... Aug. 4
Aug. 18. Post office, Wausau, Wis. .... July 14
Aug. 20. Hospital, etc., Ft. Totten, N. Y. .... July 28
Advertised, Eng. News, July 28 to Aug. 18.
Aug. 20. Brick, building, Portsmouth, N. H. .... Aug. 4
Aug. 22. Court house, Florence, S. C. .... July 21
Advertised, Eng. News, July 21 and 28.
Aug. 23. Barracks, West Point, N. Y. .... Aug. 4
Advertised, Eng. News, Aug. 4 to 25.
Aug. 25. Court house, Detroit, Mich. .... Aug. 4
Aug. 25. School, Dawson, Minn. .... Aug. 4
Aug. 25. Cathedral plans (Foreign), Roumania .... July 7
Aug. 27. Hot-water heating, Pt. Townsend, Wash. .... Aug. 4
Aug. 29. Post office, Moberly, Mo. .... July 21
Sept. 5. Jail, Opelousas, La. .... Aug. 4
Sept. 6. Post office, Marshalltown, Ia. .... Aug. 4
Advertised, Eng. News, Aug. 4 and 11.
Sept. 8. Steam heating, Norwich, Conn. .... Aug. 4
Advertised, Eng. News, Aug. 4 and 11.
Sept. 10. High school, Missoula, Mont. .... Jun. 30
Sept. 14. Post office, Laramie, Wyo. .... Aug. 4
Sept. 15. Post office, Grand Haven, Mich. .... Aug. 4
Advertised, Eng. News, Aug. 4 and 11.
Sep. 17. Schools, etc., Oakland, Cal. .... July 28

WATER SUPPLY AND IRRIGATION.

Aug. 6. Water pipe, Chicago, Ill. .... Aug. 4
Aug. 8. Pumping engine, Brandon, Man. .... July 14
Advertised, Eng. News, July 14 and 21.
Aug. 8. W.-wks. improvements, Evansville, Ind. .... Aug. 4
Aug. 8. Water-works, Eldridge, Ia. .... Aug. 4
Aug. 8. Water-works, Rockport, O. .... July 14
Aug. 8. Water pipe, Yorkkville, Ill. .... Aug. 4
Aug. 9. Water supply, New Carlisle, O. .... Aug. 4
Aug. 10. Water pipe, etc., Columbus, O. .... July 21
Advertised, Eng. News, July 21 to Aug. 4.
Aug. 10. Stand-pipe, Attleboro, Mass. .... July 21
Advertised, Eng. News, July 21 and 28.
Aug. 10. Water and light plant, Springfield, Tenn. .... July 28
Advertised, Eng. News, July 28.
Aug. 11. Sand washers, ejector pipes, Phila., Pa. .... Aug. 4
Advertised, Engineering News, Aug. 4.
Aug. 12. Pumping engine, Kansas City, Mo. .... July 28
Advertised, Eng. News, July 28 and Aug. 4.
Aug. 12. Tower, tank and reservoir, Libertyville, Ill. .... July 28
Aug. 15. Meters, Winnipeg, Man. .... July 28
Advertised, Eng. News, July 28.
Aug. 15. Engine, Waukon, Ia. .... July 28
Advertised, Eng. News, July 28.
Aug. 15. Franchise, water pipes, Pinole, Cal. .... July 14
Aug. 16. Reservoir, Manhattan, Kan. .... Aug. 4
Aug. 17. Reservoir, Hartwell, O. .... Aug. 4
Aug. 18. Water supply and electric light, Italy .... Apr. 21
Advertised, Eng. News, Apr. 14 to May 5.
Aug. 18. Reservoir, pipe, etc., Fort Meade, S. Dak. .... July 21
Advertised, Eng. News, July 21 to Aug. 18.
Aug. 20. Water storage capacity, Ft. Howard Md. .... Aug. 4
Aug. 21. Water distribution system, Prescott, Ariz. .... July 21
Advertised, Eng. News, July 21 to Aug. 18.
Aug. 22. Pipe, pumping stations, etc., Crajova, Roumania .... July 28
Aug. 22. Water-works, Poland, N. Y. .... Aug. 4
Aug. 27. Distributing system, Prescott, Ariz. .... July 28
Advertised, Eng. News, July 28 to Aug. 25.
Aug. 30. Cast-iron pipes, Java (Foreign) .... July 14
Advertised, Eng. News, July 14 and 28.
Sept. 5. Stand-pipe, Great Falls, Mont. .... Aug. 4
Advertised, Eng. News, Aug. 4 and 11.
Sept. 6. Water-works, etc., Corinth, Mass. .... Aug. 4
Advertised, Eng. News, Aug. 4 to 25.
Sept. 15. Canals, etc., Montrose, Colo. .... Aug. 4
Advertised, Eng. News, Aug. 4 to Sept. 15.
Sept. 19. Water pipe, Victoria, B. C. .... July 21
Oct. 5. Tunnel, etc., Montrose, Colo. .... Aug. 4
Advertised, Eng. News, Aug. 4 to Oct. 6.
No date. Water-works, Russellville, Ky. .... Jun. 23
Advertised, Eng. News, June 23 and 30.

SEWERAGE.

Aug. 4. Sewers, Lorain, O. .... July 28
Aug. 5. Sewers, Janesville, Wis. .... July 21
Aug. 6. Sewers, Anadarko, Okla. .... July 21
Aug. 8. Sewage disposal, etc., Washington, D. C. .... July 14
Advertised, Engineering News, July 14.
Aug. 8. Sewer, Clarion, Pa. .... Aug. 4
Aug. 8. Sewer, Boonville, Ind. .... Aug. 4
Aug. 8. Sewer, West Bay City, Mich. .... Aug. 4
Aug. 9. Sewers, Eureka, Cal. .... Aug. 4
Aug. 9. Sewers, De Pere, Wis. .... July 28
Aug. 10. Pumping plant, Columbus, O. .... July 21
Advertised, Eng. News, July 21 to Aug. 11.
Aug. 11. Sewers, San Diego, Cal. .... Aug. 4
Aug. 12. Sewers, Buffalo, N. Y. .... Aug. 4
Aug. 13. Sewer works, East St. Louis, Ill. .... July 21
Aug. 15. Sewage system, Washington, D. C. .... July 28
Advertised, Eng. News, July 28 and Aug. 4.
Aug. 15. Sewer system, Delford, N. J. .... Aug. 4
Advertised, Eng. News, Aug. 4 and 11.
Aug. 17. Sewers, Springfield, Ill. .... July 28
Advertised, Eng. News, July 28.
Aug. 18. Sewers, Reading, Pa. .... July 28
Aug. 20. Sewers, Lewistown, Pa. .... July 28
Advertised, Eng. News, July 28 and Aug. 4.
Aug. 20. Sewers, Mount Carmel, Pa. .... Aug. 4
Advertised, Eng. News, Aug. 4 and 11.
Aug. 22. Sewage system, Washington, D. C. .... July 28
Advertised, Eng. News, July 28 and Aug. 4.
Aug. 24. Sewers, Havana, Ill. .... Aug. 4

STREETS AND ROADS.

Aug. 4. Grading, etc., New York, N. Y. .... July 28
Aug. 4. Roads, Bedford, Ind. .... July 28
Aug. 4. Paving, Oneida, N. Y. .... July 28
Aug. 5. Roads, Paoli, Ind. .... July 21
Aug. 5. Macadamizing, Tiffin, O. .... July 21
Aug. 6. Sidewalks, White Hall, Ill. .... July 21
Aug. 6. Sidewalks, granolithic, Morrisburg, Ont. .... Aug. 4
Aug. 6. Roads, Columbus, Ind. .... Aug. 4
Aug. 8. Walks, etc., Ft. Douglas, Utah. .... July 21
Aug. 8. Road, Harrisburg, Pa. .... July 21
Aug. 8. Paving, vitrified brick, Bluffton, O. .... July 21
Aug. 8. Road, macadam, Manchester, Conn. .... July 28
Aug. 8. Road, Bradford, Pa. .... July 28
Aug. 8. Graveling, Indianapolis, Ind. .... Aug. 4
Aug. 9. Paving, Philadelphia, Pa. .... Aug. 4
Aug. 9. Paving, etc., Mankato, Minn. .... Aug. 4
Aug. 9. Paving, etc., Sandusky, O. .... Aug. 4
Aug. 9. Paving, Ironton, O. .... July 28
Aug. 9. Curbing, Medina, O. .... July 21
Aug. 10. Paving, etc., Ottumwa, Ia. .... July 21
Aug. 11. Grading, Oswego, N. Y. .... July 14
Advertised, Eng. News, July 14 to Aug. 11.
Aug. 11. Paving, Ironton, O. .... July 28
Aug. 11. Paving, vitrified brick, Des Moines, Ia. .... July 28
Aug. 11. Curbing, Portland cement, Des Moines, Ia. .... July 28
Aug. 12. Roads, Albany, N. Y. .... July 28
Aug. 12. Paving, etc., Dowagiac, Mich. .... Aug. 4
Advertised, Engineering News, Aug. 4.
Aug. 15. Paving, brick, Oberlin, O. .... Aug. 4
Aug. 16. Paving, etc., Fremont, O. .... July 28
Advertised, Eng. News, July 28.
Aug. 17. Paving, brick, Mt. Gilead, O. .... Aug. 4
Aug. 18. Paving, asphalt, Columbus, Ind. .... Aug. 4
Advertised, Engineering News, Aug. 4.
Aug. 18. Paving, brick, Minerva, O. .... July 21
Aug. 25. Paving brick, Jerseyville, Ill. .... Aug. 4
No date. Paving, brick, Morris, Ill. .... July 21
Advertised, Eng. News, July 21 to Oct. 13.
No date. Paving, etc., Aspinwall, Pa. .... July 28

MISCELLANEOUS CONTRACTS.

Aug. 4. Cut stone, Chicago, Ill. .... July 28
Aug. 5. Lock gates, Egypt (Foreign) .... July 14
Aug. 7. Levee work, Shreveport, La. .... July 21
Aug. 8. Vessel yard, Duluth, Minn. .... July 14
Advertised, Eng. News, July 14 to Aug. 11.
Aug. 8. Levee, Sacramento, Cal. .... Aug. 4
Aug. 9. Breakwater, Washington, D. C. .... July 7
Aug. 9. Machine tools, Washington, D. C. .... July 21
Aug. 9. Boiler-mechanical draft plant, West Point. .... July 21
Advertised, Eng. News, July 21 to Aug. 11.
Aug. 10. Conduit material, Baltimore, Md. .... July 28
Advertised, Eng. News, July 28 and Aug. 4.
Aug. 11. Iron, boilers, etc., New York, N. Y. .... Aug. 4
Aug. 11. Dam, Harrisonburg, Va. .... Aug. 4
Aug. 12. Drainage ditch, Sterling, Ill. .... Aug. 4
Aug. 12. Wreck removal, Boston, Mass. .... July 21
Advertised, Eng. News, July 21 to Aug. 18.
Aug. 15. Shore protection, Richmond, Va. .... July 21
Advertised, Eng. News, July 21 to Aug. 18.
Aug. 15. Rolling stock, Siam (Foreign) .... Apr. 21
Aug. 15. Canal, bridges, etc., Port Huron, Mich. .... July 28
Advertised, Eng. News, July 28 and Aug. 4.
Aug. 15. Repairing ice breaker, Peru, Ill. .... Aug. 4
Advertised, Engineering News, Aug. 4.
Aug. 15. Earth dam, Sacramento, Cal. .... Aug. 4
Aug. 15. Coal pocket, pump, generator, etc., East Orange, N. J. .... Aug. 4
Advertised, Eng. News, Aug. 4.
Aug. 16. Sluice gates, etc., New York, N. Y. .... Aug. 4
Aug. 16. Manila rope and pine lumber, New York. .... Aug. 4
Aug. 16. Wharves, Cuba .... July 28
Aug. 16. Fire brick, pig iron, etc., Washington, D. C. .... July 21
Aug. 17. Locks, dams, Vicksburg, Miss. .... Jun. 16
Advertised, Eng. News, Jun. 16 to July 28.
Aug. 17. Locks and dams, Vicksburg, Miss. .... Jun. 23
Advertised, Eng. News, Jun. 23 to Aug. 18.
Aug. 17. Drainage ditch, Brodhead, Wis. .... Aug. 4
Aug. 18. Stone placing, Portland, Me. .... July 21
Advertised, Eng. News, July 21 to Aug. 18.
Aug. 20. Wreck removal, Wilmington, Del. .... July 21
Advertised, Eng. News, July 21 to Aug. 18.
Aug. 22. Canal, New Orleans, La. .... July 14
Aug. 23. Machine tools, Washington, D. C. .... July 21
Aug. 24. Excavating, cofferdams, Chicago, Ill. .... Jun. 30
Aug. 24. Sea wall, Galveston, Tex. .... July 28
Advertised, Eng. News, July 28 to Aug. 25.
Aug. 25. Cement, Minidoka, Idaho. .... July 21
Advertised, Eng. News, July 21 to Aug. 18.
Aug. 27. Dry-dock, New York, N. Y. .... July 14
Sept. 1. Levees, sewers, etc., Memphis, Tenn. .... Aug. 4
Advertised, Eng. News, Aug. 4 to Sept. 1.
Sept. 6. Dam, etc., Roswell, N. Mex. .... July 21
Advertised, Eng. News, July 21 to Sept. 1.
Sept. 10. Window and door screens, Prescott, Ariz. .... Aug. 4
Advertised, Eng. News, Aug. 4 to Sept. 1.
Oct. 15. Plans for harbor, Sweden (Foreign) .... Apr. 21

Write our advertisers when you intend to buy your supplies and machinery for improvements, or for carrying out your contracts. If you do not find what you want in our advertising pages write us for list of firms, and we will put you in communication with them at once.

RAILWAYS.

ALBUQUERQUE EASTERN.—W. S. Hopewell, Vice-Pres. Santa Fe Central Ry., is reported saying that Pennsylvania capitalists have raised the funds necessary to complete the Albuquerque Eastern from Moriarty on the Santa Fe Central to Albuquerque, N. Mex., and for the branch line into the Hagan coal fields. He states that the contract has been signed for 60 miles of steel rails. The road will be built through Tijeras canyon, east of Albuquerque.

ATCHISON, TOPEKA & SANTA FE.—This road is stated to have submitted a proposition, which has been accepted, to the citizens of Tulsa, Ind. T., to build the road in from Owasso, Ind. T., a distance of twelve miles.

ATCHISON, TOPEKA & SANTA FE.—Work will begin soon, according to press reports, on a new line from Canyon City, Tex., to Plainview, 100 miles.

ATLANTA, KNOXVILLE & NORTHERN.—J. H. Peyton, Ch. Engr., Louisville, Ky., will let contracts at once for rebuilding the line between Knoxville, Tenn., and Wetmore, 65 miles. All rights of way have been secured.

BALTIMORE & OHIO.—Surveys have been made to shorten the line between Baltimore and Pittsburg about 50 miles. It will branch out from Hancock, W. Va., through Maryland, to Bedford, Pa., where it will follow the route laid out for the South Pennsylvania that never was used. It will follow this line for 75 miles and will join the present line at Port Perry, several miles east of Pittsburg. The Baltimore & Ohio recently purchased the South Pennsylvania at a foreclosure sale.

BIRMINGHAM & LINEVILLE.—Grading is reported completed on this proposed road from Lineville, Ala., west to Pyriton, in Clay County, eight miles. Track laying will be begun soon, connecting with the Talladega branch of the Louisville & Nashville at Pyriton. R. L. Ivey, Lineville, Ala., may be addressed.

CHICAGO, ROCK ISLAND & PACIFIC.—Plans are stated to have been perfected for expending $250,000 in increasing Armourdale yards, at Kansas City, Mo., to three times their present size.

DELAWARE, LACKAWANNA & WESTERN.—Work has been started on preliminary plans for projected changes in the terminal facilities at Hoboken, N. J. It is stated that the present buildings will be replaced by modern, up-to-date structures. The plans of the ferry slips show two slips added on the south side. The new lay out provides for double-decked boats with wide concourse on the second story of the terminal. Plans and specifications have been completed for new iron covered pier just south of Pier 5. It will be 88 ft. wide and 1,340 ft. long and modern in every particular. The company is proceeding with the construction of car and machine shops at Kingsland, N. J., one building of which will be 220 ft.—170 ft. × 600 ft., this will be a paint shop. Other buildings which will also be erected include mill building, power house, carpenter shop, blacksmith shop, etc. The construction will be concrete brick and iron, and the work will be done by company forces. J. E. Snell, Hoboken, N. J., is Supt. Bldgs. and Docks.

DENVER & NORTHWESTERN.—Contract for building grade of this road from Sunset, Colo., to Eldora, 12 miles, is stated to have been let to Orman & Crook, Pueblo, Colo.

DENVER & RIO GRANDE.—This company is said to have let contracts for an extension of the Rio Grande Western from Marysville to Cedar City, Utah.

DES MOINES, ALBANY & ST. JOSEPH.—Reports state that this line will be surveyed soon. It will run from St. Joseph, Mo., to Des Moines, Ia. F. S. Mordaunt, of Chicago, is interested. Line will be about 200 miles long.

DUBLIN & SOUTHWESTERN.—Dublin & Southwestern R. R., according to reports, will build an extension from Eastman, Ga., to Rentz.

FLORIDA.—Surveys are reported to be under way for railroad to connect Pensacola, Fla., with Andalusia, Ala., some 60 miles distant.

FLORIDA EAST COAST RY.—E. B. Carter, Engr. and Gen. Roadmaster, St. Augustine, Fla., writes us that this company will extend its line from Homestead, 28 miles south of Miami, to Key West via the Florida Keys, about 136 miles. Plans will be ready about Oct. 1. He states that "most of the work will be of unique character and interesting to both engineers and contractors." Field engineering will be in charge of J. C. Meredith, Constructing Engr. Locating party is in charge of William J. Krome.

INTERNATIONAL & GREAT NORTHERN.—Proposition is to be made to Ennis, Tex., looking to an extension of this road to that place from some point on Fort Worth Division.

JAMES BAY R. R.—Toronto, Ont., reports state that contracts for construction of James Ray Ry., from Toronto to Parry Sound have been awarded to Angus Sinclair, C. E., and the firm composed of A. R. Mann and A. Mackenzie.

JELLICO, BIRD-EYE & NORTHERN.—J. E. Willoughby, Ch. Engr. of the Knoxville, Lafollette & Jellico Ry., has awarded the contract for the line that will be built from Jellico to Lot, Ky., a distance of two miles, to Walton & Wilson, Knoxville, Tenn. The extension of the main road is known as the Jellico, Bird-Eye & Northern.

KANSAS CITY, BURLINGAME & WESTERN.—A. L. Hartridge, Ch. Engr., Kansas City, Mo., writes us that preliminary survey has been completed to Overbrook, 30 miles.

KETTLE VALLEY LINES.—H. W. Warrington, Grand Forks, B. C., Ch. Engr., Kettle Valley Railway lines has instructions to organize an engineering corps to make a survey of the proposed extension up the north fork of Kettle River. The project has been voted a subsidy of $6,400 a mile by the Dominion parliament for the first 50 miles.

OPELOUSAS, GULF & NORTHEASTERN.—W. B. Robert, C. E., Opelousas, La., writes us that he has completed preliminary survey for the line from Moreauville, to Abbeville, La., 86 miles. Work will begin early in 1905.

MILWAUKEE SOUTHERN.—Oliver C. Fuller, Pres. Wisconsin Trust & Security Co., Milwaukee; Henry C. Wood of Chicago, Pres. Milwaukee Southern Ry.; Edward Whitaker, Pres. Mississippi Valley Trust Co., St. Louis, and John C. Van Riper, Pres. Illinois State Trust Co., of East St. Louis are said to be backing this line. Company is incorporated at $50,000. Company is said to be interested in securing terminus at Milwaukee.

ORANGE & NORTHWESTERN.—Reports again state that the proposed extension of this railroad from its present terminus at Buna, Tex., to Shreveport, 150 miles further north will be constructed. H. L. Montandon, Ch. Engr. and Supt. of Construction of the Southern Construction Co., is reported to be at Del Rio, Tex., arranging to immediately ship a grading outfit from that point to Orange to begin work.

PENNSYLVANIA.—This railway, in conjunction with several other railroad companies, will shortly begin work upon freight yard at Alexandria, Va. The other railroad companies interested are the Baltimore & Ohio, the Chesapeake & Ohio, the Southern, the Atlantic Coast Line and the Seaboard Air Line. It will cost $1,000,000, and it is said that it will be the largest freight yard in the world.

PHILADELPHIA & READING.—E. E. Smith Construction Co., of Philadelphia, has been awarded the contract for building a section of the New York Short Line Railroad between Cheltenham Station and Pennypack Creek, a distance of 2.6 miles. The Millard-McCraw Construction Co., of Philadelphia, is now building from Neshaminy Falls toward Cheltenham. The contract for the intermediate section has not been given out. The contract just awarded requires 300,000 cu. yds. of excavation work and 15,000 cu. yds. of masonry. There will be bridges at Cottmann St., Oxford pike, Rhawn St., Krewston Road, and a 7-arch masonry bridge over Pennypack Creek. It is probable that the contract for the remaining section will be awarded within the next few weeks.

SIERRA RY. CO. OF CALIFORNIA.—Meeting of stockholders is to be held Sept. 7 to consider increasing bonded indebtedness by $860,000. It is stated that company will complete its railroad. T. S. Bullock, 238 Crocker Bldg., San Francisco, Cal., is Pres.

SOUTHERN PACIFIC.—This company may, it is reported, give up the Virginia and Truckee railroad altogether and connect the Carson & Colorado Ry., at a point 8 miles north of Wabuska, with a direct line from Hazen (Post Office, Leetville), which is 67 miles east of Reno on the main line. This is part of the plan to shorten the line from Reno to Tonopah.

TONOPAH & TIDEWATER R. R.—We are informed that first section of this road has been surveyed and right of way secured, as has the capital for construction. Some of the contracts have been let and 100 miles of grading is now completed. F. M. Smith, 100 William St., New York, is Pres.

TOPEKA & NORTHWESTERN.—Surveys are now being run for this road. It will extend from Topeka to Marysville, Kan., 90 miles, connecting at the latter point with the St. Joseph & Grand Island, and it is said that it will afford the Union Pacific another outlet for its Nebraska lines to Kansas City, besides shortening the route between Kansas City and the Pacific 81 miles.

WISCONSIN & MICHIGAN.—A contract has been awarded to Lorimer & Gallagher, of Chicago, for building an extension of this road from Nathan, Mich., to the Menominee River, seven miles. Connection will be made with the Holmes logging road that was recently bought by the W. & M. B. C. Gowen is Ch. Engr., Peshtigo, Wis.

NEW INCORPORATIONS AND CHARTERS.

GRAND RAPIDS, HOLLAND & CHICAGO.—Mich.—Company has incorporated with $1,350,000 capital. It is reported that the company will take over the property of the present Grand Rapids and Holland line. Incorporators are George Hendrie, J. K. Andrews, A. L. Stephens and others.

OKLAHOMA, TEXAS & NEW MEXICO.—Okla.—Charter has been granted to this company. Capital, $10,000,000. L. P. Raymond is Vice-Pres.; J. H. Conten, of Dalhart, is Pres.; W. C. Edwards, Gen. Mgr. A line is to be constructed from Woodward, Okla., through Dalhart to El Paso, Tex.

SHORT CREEK VALLEY.—O.—Company has been incorporated to operate between New Athens, Harrison County, and Dillonvale, Jefferson County. Capital, $100,000. W. P. Moore, C. E. Branson, E. B. Thomas, Milton I. Baird, of Pittsburg, and others are incorporators.

STREET AND ELECTRIC RAILWAYS.

NEW YORK, N. Y.—The Board of Aldermen approved the application of the New York, Westchester & Boston Railroad for permission to cross the streets of the Bronx in the construction of an electric road to various points in Westchester County, including a spur to White Plains and another to the Connecticut line at Port Chester.

BROOKLYN, N. Y.—The Allis-Chalmers Co. is said to have obtained a contract for installing nearly 100,000 HP. turbo-generating equipment, asserted to be the largest contract of the kind ever made in the world, the value being upward of $2,000,000. The contract is reported to have been awarded by Thomas E. Murray, acting as consulting engineer for the Brooklyn Rapid Transit Co., the New York Edison Co. and other companies in which Anthony N. Brady is the dominant factor. There will be six 5,500-KW. turbines, direct connected to 25-cycle, 750 revolutions a minute, three-phase alternating generators. The latter machines will be wound to give either 6,600 or 11,000 volts. One is to be installed in a huge power house which the Brooklyn Rapid Transit is to erect at Kent and Division Aves., and which will contain almost 100,000 HP. Twelve turbines in all are to be put in the plant.

NEW YORK, N. Y.—Following bids were received by Geo. E. Best, Bridge Comr., 13 Park Row, July 26, for (a) constructing conduit electric railway tracks, loop, etc.; also for (b) constructing overhead trolley railway tracks, loop, etc., on Williamsburg Bridge: Naughton & Co., 258 Broadway, (a) $333,000, (b) $108,000 (awarded contract); Seaboard Contracting Co., 258 Broadway, (a) $155,000, (b) $357,000; Frederick Holbrook, (a) $115,000, (b) $360,000; United Engineering & Contracting Co., 13 Park Row, (b) $321,745; Snare & Triest Co., 39 Cortlandt St., (a) $249,560 (awarded contract).

ROCHESTER, N. Y.—The contractors on the Rochester, Syracuse & Eastern Electric Ry. have been notified to commence construction work at once, and it is expected that grading over the three sections will be completed and some rails laid before winter. About 6,000 cu. yds. of concrete masonry will be used in the contruction of the first three sections. Concrete will be used entirely for this class of work. Several bridges with 15-ft. arches will be built, and one bridge 900 ft. long of trestle-work will be erected. A number of large fills will be made, some as deep as 30 ft., and the track will pass through cuts the same depth. The contract for the Rochester-Freeport section was let to Fred. T. Ley & Co., Springfield, Mass., and the company will probably open an office in Rochester. Contract for the two sections next east was let to John Shields Co., New York, and they will probably establish an office at Palmyra, N.Y. Thos. H. Mather, Syracuse, N.Y., is Ch. Engr.

NEWARK, N. J.—Plans are under way for the construction of a trolley line from Newark to Morristown, eventually to be continued to Easton, Pa. The company will be known as the Lehigh Valley Traction Co., and is composed largely of Pennsylvania capitalists. From Morristown it will run through Afton, Hanover, Moorehouse Town and Livingston.

CLEARFIELD, PA.—The Clearfield & Curwensville Street Ry. Co. will build about 11 miles of line. Rights of way are being secured. E. W. Hess, City, is Engr.

STROUDSBURG, PA.—E. P. Arbogast, Ch. Engr., informs us that a company has been formed with Henry J. Katz, City, as president, to build a trolley line from Stroudsburg to Wind Gap.

SALISBURY, MD.—The Wicomico Electric Power Co. has incorporated with a capital limit of $2,000,000. Thomas Perry is Pres. The road will run from Bivalve, this county, and Salisbury. Two routes are being considered—one to run through Quantico and Helbron, the other straight through Quantico, the latter being two miles shorter than the first. It is expected to later include all the principal towns of the county. A street railway for Salisbury will also be operated by the company. The plant will be at Salisbury. Freight and passenger service will be included on the county line.

FAIRMONT, W. VA.—G. S. Fleming, City, Pres. Fairmont & Mannington Ry. Co., informs us that the contract will be let at once for constructing a line from Fairmont to Mannington, a distance of 16 miles.

WILLIAMSON, W. VA.—Dr. H. M. Payne, Ch. Engr. Virginia & North Carolina Electric Ry. Co., writes us that a meeting of the directors was held in Roanoke July 28, and the proposed route as laid out was substantially adopted, with some slight variations. The Engineering Co. of America, 79 Broadway, New York, submitted a proposition to do the engineering work, but it was voted to lay the same on the table and leave the matter open. Proposals for financiering the road, or any inquries relating to the same, should be addressed to Dr. Payne. There is no doubt that this road will be built, but it has become a matter of discussion among the directors as to the most feasible method of procedure.

VERSAILLES, KY.—Geo. MacLeod, Engr., of this city, is engaged in surveying a route along Glen's creek from Versailles to Frankfort for the contemplated interurban electric railroad to connect the two cities.

BATTLE CREEK, MICH.—The survey of the Battle Creek & Coldwater electric road has been started. E. F. Layman, of Cincinnati, is Engr.

PORT HURON, MICH.—It has been announced that the St. Clair Tunnel Co. has decided to abolish the use of steam power and adopt electricity for moving trains through the Grand Trunk tunnel under the St. Clair River. A three-rail system will be put in at an expense of $400,000.

FOND DU LAC, WIS.—The East Shore Interurban franchise for an electric line to Fond du Lac, pending in the City Council for several months, has been granted. This line, running closely along the eastern shore of Lake Winnebago from Fond du Lac through the villages of Calumet Harbor, Taycheedah, Chilton, Stockbridge, Brothertown, and either Clifton or Sherwood, will go through a fine section of country which at present has scarcely any outlet for nearly the whole distance. The company was granted three years' time in which to complete the road.

RACINE, WIS.—Mayor Nelson is in correspondence with Boston capitalists who desire to build an electric railway line from this city to Lake Geneva and Elkhorn, in Walworth County. If the right-of-way can be obtained the line will run from Racine west to the Summer resorts at Eagle Lake and Brown's Lake, near Burlington, and then to Elkhorn and Lake Geneva.

ST. PAUL, MINN.—The Board of County Commissioners of Ramsey County has granted to the Twin City Rapid Transit Co. its desired franchise for the extension to White Bear Lake. It is understood that the company will put in the extension this summer. W. D. Dozier, of Minneapolis, is Ch. Engr.

ST. JOSEPH, MO.—The St. Joseph, Albany & Des Moines Ry Co. has been incorporated with $800,000 cap. stock, to build line from St. Joseph to Des Moines. Survey is now being made, and most of the right of way has been granted. The motive power will probably be electricity. It is expected to have trains running within a year. F. S. Mordaunt, of Chicago, is interested.

DENVER, COLO.—The Denver-Boulder Interurban Ry. Co., 302 Boston Bldg., City, has completed surveys for the proposed electric line from Denver to Boulder. Equipment of the finest and latest design will be selected for the road. Although plans for the power-house have been completed, its location has not been definitely decided upon, and will be left to the company's engineer, who will probably select a point about half-way between Denver and Boulder. A 1,500-HP. electric plant, with the latest machinery, will be installed; 80-lb. steel rails will be used in the construction, and the grade will not at any point exceed 2%. The cars will be of the semi-convertible style for interurban railway work, and each car will contain four 75-HP. motors and compressed air brakes. Stations will be established along the line for the convenience of farmers and people outside of Denver. Three surveys have been made to Denver points, but the ultimate point of entry and connection with other lines has not been settled. Companies have been formed which will connect with the main line at Longmont, and extensions will be built to Loveland, Fort Collins and Greeley. It is estimated that $1,000,000 will be spent in constructing and equipping the system and installing the electric plant. The directors are: J. R. McKinnie, of the Exchange National Bank of Colorado Springs; Attorney Sterling B. Toney, H. V. Johnson and C. F. Potter, of this city; L. L. Aitken, of Pike's Peak Fuel Co., of Colorado Springs; Shirley Moore, of Louisville, and John H. Simpson, of Cleveland.

SAN DIEGO, CAL.—An application will shortly be made to the City Council for a franchise to extend lines of San Diego Electric Railway to Mount Hope Cemetery. C. McLegan is Ch. Engr.

LIGHT, HEAT AND POWER PLANTS.

EAST ORANGE, N. J.—City Council is asking bids until Aug. 15 for 45-HP. electric motor, direct connected to 5,000,000-gallon centrifugal pump, which is also to be furnished and erected; 50-KW. electric generator, 25-HP. direct-connected steam engine 7-KW. lighting generator, direct connected to steam turbine; 80 incandescent lights with fixtures, together with switch-board, wiring, etc., as is advertised in Engineering News. Stephen Long, Cy. Clk.

NORWICH, CONN.—Bids are asked by Treasury Department, James Knox Taylor, Superv. Arch., until Sept. 1 for the installation of a conduit and electric wiring system for the U. S. Post Office, at Norwich. Plans and specifications may be obtained at offices of Supervising Architect and Superintendent of Construction.

WINSTED, CONN.—The Winsted Gas Co. is reported to be the company that is acquiring large land holdings at Pleasant Valley, in the town of Barkhamsted, upon which to establish a plant for the development of electric power. Mentioned last week.

BUFFALO, N. Y.—The Central Power & Mfg. Co. has incorporated with a capital of $10,000. The purpose of the incorporation is to manufacture and transmit electricity for light, heat and power. The directors are: Chas. R. Huntley, Wm. R. Huntley and Daniel J. Nash, of this city. The company will operate in the counties of Schenectady, Saratoga, Albany and Rensselaer; the cities of Schenectady, Cohoes, Troy and Albany, and the surrounding towns.

LOCKPORT, N. Y.—The Niagara, Lockport & Ontario Power Co. has voted to mortgage its corporate property for $24,000,000, to secure bonds for the same amount. The company will modify its certificate of incorporation so as to permit the transmission of electric power as far east as Utica and south to the Pennsylvania line.

PITTSTON, PA.—It is understood that a light, heat and power company, to be capitalized at $250,000, will be located on Broad St.

OWINGS MILLS, MD.—Ellicott & Emmart, Archs., 1111 Union Trust Bldg., Baltimore, have completed plans for a power house to be erected at Owings Mills for the Maryland Asylum for the Blind.

LYNCHBURG, VA.—The Home Acetylene Gas Co. has been granted a franchise to erect an acetylene gas plant. C. H. Almond, Pres.; J. R. Millner, Vice-Pres.; C. H. Almond, Jr., Secy.

RICHMOND, VA.—Plans are being prepared for the heating, lighting and power plant to be built for the State buildings. It is expected that bids for the work will be asked at next meeting of the Capitol Commission. An appropriation of $25,000 was made for this plant.

RAEFORD, N. C.—The Raeford Power & Mfg. Co. has been incorporated with capital of $200,000; $15,000 subscribed. J. W. McLochlin, T. B. Upchurch, W. J. Upchurch and John Blue are incorporators. Company will develop water-power and operate cotton mills.

DOUGLAS, GA.—The city will establish an electric light plant. C. T. Roan, Mayor, can inform.

THOMSON, GA.—Bids are asked until Aug. 22 for labor and material to complete a system of electric light for this town. Electric light plant will consist of brick power house, 66 ins. × 16 ft. high pressure boiler, heater and feed pump, 135 HP. engine, 90 KW. alternator and station apparatus, 6 arc lamps, 36 50 c.-p. semi-incandescent lamps, 800 lights capacity in transformers wire, pole, lines, etc. Jos. B. McCrary, Engr.; W. R. Hadley, Cy. Clk. (Advertised, Engineering News.)

TAMPA, FLA.—Tampa Electric Co. is preparing to erect large power-house on Hillsborough River, upon site occupied by present building.

BIRMINGHAM, ALA.—The Cherokee Co., which is planning to furnish Birmingham with 25,000 HP. by bringing it here from the Tallapoosa River at Cherokee Bluff, has increased its capital stock to $100,000. It is claimed that Eastern capital has become interested, and that locks and dams will be built at Cherokee Bluff to concentrate the power. The distance to Birmingham is 85 miles.

LAFAYETTE, LA.—The City Council has contracted with the Standard Electric Co., of New Orleans, for the installation of a new electric lighting plant and machinery for the city work, the machinery to cost $6,353.

NEW ORLEANS, LA.—Bids are asked by the Sewerage and Water Board, 602 Carondelet St., until Aug. 15 for erecting two complete gas producer plants for supplying gas to gas engines; also for making additions to transmission line and switchboard. Plans may be seen at Drainage Department, 20 City Hall. Geo. G. Earl, Genl. Supt.

NEW CUMBERLAND, O.—W. J. Miller, C. E., of Wheeling, W. Va., has had plans for a new electric light and water system at New Cumberland favorably considered.

XENIA, O.—The Xenia Heat, Light & Power Co., who recently acquired a franchise from the City Council, intends to go ahead with its plans for a central heating plant here, also an electric light plant in connection with same.

LOGANSPORT, IND.—Denis Uhl and others will construct an electric power plant in this city, costing $150,000. The plant will be operated by water-power. Plans are now being made.

CARO, MICH.—The Caro school district will be bonded for $3,500 to install a new heating apparatus in the high school building.

DETROIT, MICH.—A contract for a power house has been awarded the Reisinger-Prathow Co., of Pittsburg, by the Detroit, Flint & Saginaw Railway. A time limit of four months is given for completion of the power house, which is to be begun at once, and which is to cost over $50,000, the plant to have two dynamos of 250 KW. power each, and two engines. No site has yet been selected.

PONTIAC, MICH.—Jules G. Hoffman, of Detroit, has been awarded the contract for lighting the streets of Pontiac for a period of ten years, from October 26, 1904, for $57.30 per light per year.

CHICAGO, ILL.—Plans for the new electric lighting station at Fullerton Ave., prepared by City Electrician Ellicott, are completed, and bids for the apparatus will be received. Cost, $100,000.

Information concerning contracts to be let or supplies to be furnished, and corrections of errors and omissions in published items, are invited. Full details regarding the equipment, tools, etc., required for the proposed improvements are specially desired.

EDINBURG, ILL.—The Edinburg Light, Heat & Power Co. has incorporated with $30,000 cap. stock to operate light, heat, power and water plant. The incorporators are: J. R. Harrington, L. E. Swigert and Reuben Wilkinson.

HOMER, ILL.—U. S. Thompson, of Fithian, has purchased the Homer electric light plant from G. C. Bowen, the consideration being $8,000. The new owner will move to Homer and remodel the plant.

FORT DES MOINES, IA.—Bids are asked by Capt. L. Hardeman, Q. M., until Aug. 26, for electric light fixtures, wiring and installing Watt meters in certain buildings. Information furnished on application to Quartermaster.

ST. JOSEPH, MO.—$75,000 of bonds will be issued for erecting and equipping an electric light plant.

BOONEVILLE, ARK.—An electric light plant will probably be erected here. Address the mayor for information.

CLARKSVILLE, ARK.—The erection of an electric light plant is contemplated. The mayor can inform.

PAUL'S VALLEY, IND. T.—Thompson Bros. will construct a new electric light plant to replace the one recently destroyed by fire.

WILBURTON, IND. T.—Contracts have been signed for a $50,000 electric light plant between the city of Wilburton and James Degnan of this place.

NORTH YAKIMA, WASH.—The City Council has granted a franchise to W. W. Dunn, of Seattle, and Dr. A. F. Campbell, City, to operate a gas plant.

HEALDSBURG, CAL.—The trustees must readvertise for bids for increasing power plant. The contracts formerly awarded were not preceded by advertising for the requisite number of days.

OAKLAND, CAL.—The Southern Pacific Co. is making preparations to erect an extensive gas plant at the foot of Cedar St.

REDDING, CAL.—J. E. Frick, of Berkeley, has appropriated 40,000 inches of water to be taken from Rising River and Crystal Lake, both tributaries of Hat Creek, at a point six miles east of Redding. A company is to be formed and a plant installed. A line will be run down the Sacramento Valley to furnish light and power to the cities and towns.

SALINAS, CAL.—Vantana Power Co. has been incorporated by C. P. Bradford, of San Francisco; W. E. Bradford, of San Jose; F. L. Ordway, of Monterey, and others. Capital, $500,000. The company will build a large dam at the junction of Vanta creek and the Big Sur River, 40 miles south of Monterey, to generate electricity from the water-power, to be carried to Monterey. It is stated that from 3,000 to 5,000 HP. can be developed. Work will commence soon.

PRESTON, ONT.—Municipal ownership of electric lighting has been voted. Council will raise $27,000 to purchase the arc and incandescent light plant.

BRIDGES.

BOSTON, MASS.—Bids are asked by James Donovan, Supt. of Sts., until Aug. 11 for constructing superstructure for Norfolk St. bridge.

BOSTON, MASS.—The Harbor and Land Commissioners have approved a plan for the new Northern Ave. steel bridge across Fort Point Ave., from Atlantic Ave. to the New England railroad freight yards on the South Boston side. There will be no piles to obstruct passage under the bridge, but, instead of such supports there will be four stone piers. At each end of the bridge there will be a fixed span of 149 ft., while between them will be the draw, 275 ft. long and 80 ft. wide, covering two channels, each of which will be 75 ft. wide. Before the bridge may be constructed the plans must be approved by the Secretary of War.

CORTLANDT, N. Y.—Bids are asked by the Aqueduct Commissioners, 280 Broadway, New York, until Aug. 16 for building a highway bridge superstructure of concrete-steel, 200-ft. span, across the spillway of the new Croton dam in Cortlandt, Westchester County. Specifications may be obtained at the above office. Wm. H. Ten Eyck, Pres.

BUFFALO, N. Y.—Bids are asked by Department Public Works until Aug. 25 for construction of substructure and superstructure of a bridge on River St., in accordance with plans and specifications on file in office of Bureau of Engineering; also for construction of superstructure of a bascule bridge on Ohio St., over Buffalo River.

NEW YORK, N. Y.—Plans, specifications and bidding sheets for construction of a bridge over the Pasig River in the city of Manila, P. I., are on file at office of Engineering News, 220 Broadway, New York. Bids are asked until Dec. 1, as advertised in Engineering News.

NEWARK, N. J.—Bids are asked by Committee on County Road Bridges of Board of Chosen Freeholders of Essex County until Aug. 8 for building masonry work on Bloomfield Ave. bridge and bridge on Hobart's Gap road. Wallace Ougheltree, Chn.

SHARON, PA.—Announcement is made that seven county bridges will be built by the State to replace those destroyed by floods last winter.

POINT PLEASANT, W. VA.—The Brackett Bridge Co., Cincinnati, O., have received contract for construction of steel bridge, 79 ft. long by 14 ft. wide, for Mason County.

BALTIMORE, MD.—Roads Engineer Shirley has recommended to the County Highways Commissioners that bridges be built on the Quaker Hill Road, over Marcella Run; on the Painter's Mill Road, and at Glenco; and the Board has approved the recommendations. Mr. Shirley has also recommended that concrete be used hereafter in bridge flooring, and has been instructed to test its usefulness by trying it on one bridge.

WASHINGTON, D. C.—Bids are asked by Treasury Department, U. S. Life-Saving Service, Washington, until Aug. 5 for construction of a footbridge at the Smith Island Life-Saving Station, and for moving the life-boat house, constructing a new foundation for same, and a footbridge. Specifications can be obtained upon application to the office of Horace Pipe, Acting Gen. Supt.

COLUMBUS, O.—Contract for constructing substructure of bridge over Scioto River has been let to Cooke & Grant, Columbus, O., for $16,150. Contract for superstructure was let to Hustin & Cleveland, Columbus, O., for $43,000. Bids were received July 26. Julian Griggs, Ch. Engr., Dept. Pub. Service.

NEWARK, O.—A. R. Pitzer, County Audr., will receive bids for construction of a 64 × 14 ft. steel bridge two miles south of Johnstown; also on steel bridge two miles north of Newark.

PAULDING, O.—Oliver Morrow, City, County Surveyor, writes us that bids will be received Aug. 24 for constructing a steel bridge, 120 × 14 ft., on a concrete foundation.

Bids are asked at the same time and place for construction of a bridge, 110 × 14 ft., across Little Anglaize River near Oakwood.

INDIANAPOLIS, IND.—The Marion County Construction Co. obtained the contract for building the new bridge across Fall creek, near the Fair grounds entrance, to take the place of the one washed away last spring. Their bid was $10,000 for the superstructure and $7.80 a cu. yd. for concrete to be used below water line.

Board Public Works contemplate building a new bridge over Pogues run, in Rural St.

NEWPORT, IND.—Bids are asked by Vermillion County Commissioners until Aug. 22 for construction of the stone abutments and piers for the Cayuga wagon bridge across the Wabash River. Plans on file in office of W. P. Bell, County Audr.

NOBLESVILLE, IND.—The County Council has authorized the County Commissioners to effect a loan of $20,000 for building new bridges and culverts destroyed by the floods.

PORTLAND, IND.—Bids are asked by Jay County Commissioners until Aug. 5 for constructing an 18-ft. stone abutment and wood-top bridge in Greene Township; also for constructing a 50-ft. steel bridge in Wabash Township. Plans and specifications on file in Auditor's office.

PORT HURON, MICH.—Bids are asked by City Controller until Aug. 15 for constructing a highway bridge over canal. R. D. O'Keefe, Supt. Pub. Wks.

SAULT STE. MARIE, MICH.—Bids are asked by Chippewa County Clk. until Aug. 6 for erecting steel superstructure for one highway bridge.

MILWAUKEE, WIS.—Plans for a concrete viaduct to span the Menomonee Valley at the west end of Grand Ave. will be presented the county board at a meeting in the near future. H. C. Koch is Arch.

WATERLOO, IA.—Bids are asked by L. H. Stevens, Cy. Clk., until Aug. 8 for construction of three bridges. Plans and specifications on file in Clerk's office.

DULUTH, MINN.—The Northwestern Steam Boiler Works, City, was awarded the contract for construction of the East Fifth St. bridge, at $2,029.

PLATTSBURG, MO.—Bids are asked by H. C. Ransdell, County Rd. and Bridge Comr., until Aug. 8 for constructing and repairing certain bridges according to plans on file in County Clerk's office.

HANNIBAL, MO.—The County Court awarded the contract for a bridge over South River at Warren to the St. Louis (Mo.) Bridge Co., for $2,175.

SEATTLE, WASH.—The City Engineer, Street Committee and property owners will meet and consider the matter of replacing the wooden bridge, which must soon be condemned, on University St., with a steel bridge, costing $50,000.

SPOKANE, WASH.—Bids are asked by County Auditor until Aug. 12 for constructing a bridge on Newman Road.

PORTLAND, ORE.—The City Council has passed a resolution for the improvement of Union Ave., across Sullivan's Gulch, with a steel bridge estimated to cost $55,000.

ARCATA, CAL.—Geo. V. Draeger was the lowest bidder, at $2,990, for building a 128-ft. span bridge across Redwood creek.

EUREKA, CAL.—All bids were rejected by the Supervisors for construction of Redwood creek bridge, as they were considered too high. The Clerk was directed to readvertise for new bids, to be received up to Aug. 8.

LOS ANGELES, CAL.—The Bridge Committee of the City Council awarded the contract to Carl Leonardt, 436 Byrne Bldg., for construction of the Aliso St. bridge, at $59,101.

MARTINEZ, CAL.—Alonzo Dickenson was awarded the contract by Board of Supervisors for constructing a wooden bridge, for $1,250; with cylinder piers, $1,400.

NAPA, CAL.—Bids are asked by County Clerk until Aug. 9 for constructing a masonry arch bridge; also for construction of stone masonry abutments.

REDWOOD CITY, CAL.—It was ordered by Board of Supervisors that the County Surveyor prepare plans and specifications for a concrete and steel bridge near the Homestead; also a concrete arch near the Hovious Place at Purissima; also a concrete bridge across Dry creek, at Woodside.

SAN RAFAEL, CAL.—Board of Trustees propose to build a concrete culvert on Culloden Ave. Cost, $8,000.

UKIAH, CAL.—Bids are asked by Board of Trustees until Aug. 15 for construction and repair of the bridge or culvert over Gibson creek, at Perkins St., according to specifications on file. Jos. H. Carothers, Cy. Clk.

BUILDINGS.

PORTLAND, ME.—Bids are asked until Aug. 8 for electric wiring one exchange building at Fort McKinley, Me. Capt. A. W. Yates, Q.-M., 185 Middle St.

PORTSMOUTH, N. H.—Bids are asked by Bureau of Yards and Docks, U. S. N., until Aug. 20 for constructing a brick building, 50 × 100 ft., at the Navy Yard, Portsmouth. Specifications on file at the Bureau and Engineering News, 220 Broadway, New York. Mordecai T. Endicott, Ch. of Bureau.

BURLINGTON, VT.—F. B. Lamonux, Q.-M., Ft. Ethan Allen, writes us that bids will be asked for additions to post hospital and for other improvements, with $49,000 recently appropriated for this post by Congress.

BOSTON, MASS.—Bids were received for the construction of primary schoolhouse in the Pierce district, Dorchester. J. M. Morrill Construction Co. was lowest bidder, at $58,464.

BOSTON, MASS.—Mayor Collins has approved the plans for a new primary school house to be located on Southern Ave., to cost when fully equipped $85,000.

CAMBRIDGE, MASS.—Emerson Hall, Harvard's proposed lecture hall, is to be erected at once. A permit to build was granted recently. Cost, $150,000. It is to be located on Quincy St., and will be 75 × 150 ft. Guy Lowell, 1128 Tremont Bldg., Boston, is Arch.

Information concerning contracts to be let or supplies to be furnished, and corrections of errors and omissions in published items, are invited. Full details regarding the equipment, tools, etc., required for the proposed improvements are specially desired.

CAMBRIDGE, MASS.—Maginnis, Walsh & Sullivan, 100 Boylston St., Boston, have plans for a church for St. John's parish, in North Cambridge. Brick, 140 × [illegible] ft. Cost, $70,000. Rev. Jas. P. F. Kelley is pastor.

HARTFORD, CONN.—Gen. J. P. Harbison, of Hartford, states that the Landlords and Taxpayers' Assn., will soon have a report ready recommending the building of a fire-proof city hall building on the site of present structure, so arranged as to contain all city offices and quarters for the commissions, and to be built for $750,000.

NORWICH, CONN.—Bids are asked by Supervising Architect, Washington, D. C., until Sept. 8 for low pressure steam heating apparatus, complete, in place in U. S. Post Office in this city. James Knox Taylor, Supervising Arch. (Advertised, Engineering News.)

BINGHAMTON, N. Y.—Wm. M. McLean, Chn. Bldg. Com., writes that plans will be prepared for $1[illegible] Y. M. C. A. building when funds are obtained.

BUFFALO, N. Y.—Bids are asked by Department of Public Works until Aug. 12, for the erection of a porte cochere over main entrance of City Convention Hall building, at Virginia St. and Elmwood Ave.

For the erection of iron stairways for purposes of fire-escapes, as follows: School No. 26, Milton and Westcott Sts., and School No. 41, Broadway and Spring St. Plans and specifications may be seen at office of Bureau of Buildings. Frank G. Ward, Comr.

NEW YORK, N. Y.—Bids were opened by the Police Commissioner, July 25, for building the new station house, prison and stable, for the 72d Precinct: T. G. Carlin, $84,000 (low bidder); Chas. H. Peckworth, $84,783; H. Probst, $85,947; L. W. Seaman & Co., $85,200; Murphy Construction Co., $87,850; P. J. Carlin Construction Co., $89,750; Geo. Hildebrand, $90,946; T. B. Leahy, $93,644; D. J. Ryan, $95,799; J. McArthur, $99,985.

Bids were opened by the President, Board of Trustees, Bellevue and Allied Hospitals, July 27, for construction of a new hospital in the Borough of the Bronx, as follows: For masonry, excavation, steel and iron, carpentry and electric work: John H. Parker Co., $387,580 (low bidder); Church Const. Co., $423,600; P. W. Finn, $498,-792; J. R. Sheehan & Co., $432,000; Geo. L. Walker Co., $497,500; P. J. Carlin & Co., $472,000; Williams Engineering & Contracting Co., $470,000. For heating and ventilating: Evans, Almirall & Co., $75,597; J. T. Finn & Co., $69,500; United Heating Co., $81,000; F. Dobson, $82,225; G. A. Suter & Co., $78,750; J. Curran Mfg. Co., $75,500; The Rossman & Bracken Co., $72,000; R. J. F. Gerstle Co., $80,000; E. Rutzler, $70,277; Blake & Williams, $69,185 (low bidder). For plumbing: :James Fay, $86,784; J. T. Finn & Co., $86,700; The Rossman & Bracken Co., $82,-000; McManus & Walsh, $81,000 (low bidder).

NEW YORK, N. Y.—Police Commissioner McAdoo writes us that all bids received July 20 for constructing new headquarters building were rejected, they being in excess of the appropriation. The architect has been directed to revise the plans and specifications to bring the cost, including the architect's fees, within the appropriation, upon completion of which the Chief Clerk has been directed to have same printed, and on approval by Corporation Counsel, to advertise for bids.

NEW YORK, N. Y.—The Board of Education has awarded the following contracts for work in public schools: General construction of No. 71, Queens, to Chas. H. Peckworth, 415 Hudson St., at $148,730. Addition to No. 38, Queens, to Wm. Youngs, First Ave. and 35th St., for $10,557; addition to No. 19, Bronx, to Wm. H. Wright & Son, Third Ave. and 148th St., for $28,675.

WEST POINT, N. Y.—Bids are asked until Aug. 23 for enlarging army service barracks. Mayor J. M. Carson, Jr., Q. M., U. S. A. (Advertised, Engineering News.)

BLOOMFIELD, N. J.—Bids for construction of the proposed combination fire-house for Essex Hook and Ladder Co. and Phoenix Hose Co. will be advertised for in a few days, and contracts will be awarded for the work at a special meeting of the Town Council, Aug. 13. The plans are by John F. Capen, 45 Clinton St., Newark.

ELIZABETH, N. J.—Nathan Myers, 238 Washington St., Newark, is drawing plans for a row of 4-story apartment houses for David Kauffman, of Elizabeth. The buildings will be erected on Reeve and South Sts. Cost, $55,000.

JERSEY CITY, N. J.—Wells Bros. & Co., 160 Fifth Ave., New York, general contractors, have let plumbing contract to the Dwyer Plumbing & Heating Co., 40 Dearborn St., Chicago, Ill., for a warehouse that they are erecting here for Butler Bros. Brick and stone, eight stories, 200 × 400 ft. Jarvis Hunt, Monadnock Block, Chicago, is Arch. Cost, $750,000.

MORRISTOWN, N. J.—It is stated that Gustav E. Kissell, of Sussex Ave., will erect a handsome dwelling, at a cost of about $50,000.

PATERSON, N. J.—Steele & Hopper, 46 North Second St., were awarded the contract for constructing a Y. M. C. A. building on Ellison St., at $96,000.

PLAINFIELD, N. J.—Bids are asked by Board of Education until Aug. 9 for construction of a high school building at West Fifth St. and Arlington Ave. Plans and specifications on file in office of Herbert D. Hale, Arch., 92 William St., New York. F. T. Woodhull, Secy.

TRENTON, N. J.—Common Council passes an ordinance appropriating $50,000 for a new public school on Brunswick Ave.

ALTOONA, PA.—The Board of Poor Directors awarded to P. W. Finn, of Altoona, the contract for construction of an asylum for Blair County's insane at his bid of $129,000. The buildings are to be completed in 18 months The asylum will be erected on the Almshouse farm.

ALTOONA, PA.—Robinson & Winkler, Park Bldg., Pittsburg, are ready for estimates on erection of three-story stone high school building for Board of Education. Cost, $200,000.

BELLEVUE, PA.—Vrydaugh & Wolfe, Archs., Chronicle-Telegraph Bldg., Pittsburg, will receive bids in a few days on the Methodist Episcopal Church. Brick and stone, organ, furnace, stained and art glass, tile flooring, combination light fixtures and chandeliers. Cost, $60,000.

DU BOIS, PA.—The Buffalo & Susquehanna Ry. Co. will erect new buildings, to cost about $100,000. A new passenger station and freight house are included.

HARMONY, PA.—A home for aged members of the Knights of Pythias will be built here. Site has been secured. Cost, $30,000.

HAZLETON, PA.—Bolton & Dull, Archs., Philadelphia, will prepare plans and specifications for a building to seat 600 people, for a Reformed church at Hazleton.

MONESSEN, PA.—Geo. M. Hall Co., Homestead, Pa., were awarded contract for erection of a bank and office building for Monessen Savings & Trust Co. Cost, $40,000.

HOMESTEAD, PA.—St. Michaels Roman Catholic Church will build a new rectory, convent and school at Library St. and Ninth Ave. Cost, $45,000.

McKEESPORT, PA.—Reported that bids for new government building will be ready for asking about Dec. 1. Congress has appropriated $110,000 for structure and site.

OIL CITY, PA.—The Levi & Mayer Realty Co. are considering the erection of a 6-story fireproof building here. Bids are invited.

PHILADELPHIA, PA.—The new building for the Commercial High School for Girls, for which Councils set apart $353,000 in the loan bill, will be erected on the site now occupied by the old school building at Broad and Green Sts. The new building will have forty-five classrooms, a large assembly room, gymnasium, etc. Cost, $[illegible]0,000.

PITTSBURG, PA.—Bids received for alterations and additions to Allegheny County Jail are much in excess of estimate by F. J. Osterling, the Arch. The lowest figure was that of the A. & S. Wilson Co., $568,050. The highest was $760,647, submitted by the Henry Shenk Co. The others were as follows: Kerr & Fox, $572,755; William Kerr's Sons, $581,677; Rose & Fisher, $584,620; George A. Cochrane, $584,800; James Stewart & Co., $605,100; H. L. Kreusler, $617,979; William F. Trimble & Sons Co., $667,800; William Miller & Sons Co., $754,760. Separate bids were also opened for the construction of a new power heating and ventilating plant for the county buildings. The lowest bid was that of P. F. Maginn & Co., $94,594. The highest was that of W. J. Lewis & Co., $115,294. The contract will be awarded on the same date.

PITTSBURG, PA.—L. T. Yoder has taken out permit and will erect a 6-story, 64 × 132 ft. hotel on Forbes St. Cost, $95,000. Construction will be steel and fireproof concrete.

PITTSBURG, PA.—J. M. Montgomery, Pres. Industrial Exchange, will erect 15 wooden dwelling houses on Montgomery Ave., Sewickley. Cost, $75,000.

Max Klein, Federal St., Allegheny City, has plans prepared and will erect a 10-story, steel, terra cotta and brick store and warehouse on Penn Ave., near Fourteenth St. Cost, $75,000.

The Anderson Building Co have been awarded contract for erection of 10 brick dwelling houses, cost $50,000, for F. Maseli, City.

SPRING CITY, PA.—Governor Pennypacker has signed papers for the purchase of land near this city on which to erect a hospital for the feeble-minded and epileptics. It is proposed to erect buildings to accommodate 500 inmates, and the expenditure to be between $500,000 and $1,000,000.

TYRONE, PA.—F. D. Beyer & Co., City, were awarded contract for erecting a stone church for First Lutheran Congregation.

UNIONTOWN, PA.—A. P. Cooper, Arch., invites estimates on erection of 5-story brick hotel for R. F. Sample and Ewing Marshall. Cost, $75,000.

BALTIMORE, MD.—The Board of School Commissioners will have plans submitted for the Eastern High School building. Cost, about $250,000.

John E. Hurst & Co. will erect a building at Hopkins Pl. and Lombard St. Six stories and basement, brick, with terra-cotta trimmings. Cost, $260,000.

BALTIMORE, MD.—The Safe Deposit & Trust Co. has been granted a permit to build a 4-story warehouse at Light and Lombard Sts. by James Stewart & Co. Cost, $78,000.

BALTIMORE, MD.—An application has been filed at the building inspector's office for permission to proceed with the reconstruction of the Calvert Bldg. The work involves about $250,000. The builders are the George A. Fuller Co.

WASHINGTON, D. C.—Building Inspector Ashford is framing specifications to be submitted to architects for plans for a new police court building. Building is to be 2 stories, 112 × 85 ft.

CHARLESTON, W. VA.—Connell & Pierson, Archs., have plans for a brick fireproof building for the Y. M. C. A. Cost, $60,000.

Geo. Henneman, Arch., has plans in progress for two brick fire engine houses for the city.

FLORENCE, S. C.—City will build a new school building costing $35,000.

CORDELE, GA.—The Atlantic & Birmingham railroad will have plans prepared for a new passenger station here. Geo. I. Gillespie, Temple Court, New York, is Secy.

BIRMINGHAM, ALA.—Plans are being prepared for proposed improvements to Owenton College at a cost of $100,000. Rev. J. R. Turner is Pres.

BIRMINGHAM, ALA.—The Board of Education has decided to expend $125,000 of the $200,000 raised by the recent bond issue for the erection of a high school building, and the remaining $75,000 will be expended in the building of two additional grammar schools.

CARROLLTON, MISS.—Carroll County will award the contract at the meeting of Board of Supervisors in August, for construction of court house. Cost, $30,000.

COLUMBIA, MISS.—The citizens of Marion County are agitating a plan for the erection of a new court house at Columbia to cost from $40,000 to $60,000.

HATTIESBURGH, MISS.—The Board of Supervisors of Perry County have awarded a contract to McGee & Garber for $24,258, to build a new court-house and jail at New Augusta. The Board is advertising for bids for $50,000 in bonds to be used in the construction of a court-house and jail in this city.

WINONA, MISS.—The Board of Supervisors of Montgomery County, at its regular meeting in August, will award the contract for construction of a new $35,000 court-house building at Winona.

NEW ORLEANS, LA.—The contract for building the McDonogh School No. 31 has been awarded to Frank J. Noullet for $40,997.

OPELOUSAS, LA.—Bids are asked by A. J. Muller and E. B. Dubuisson, Com., until Sept. 5 for construction of a jail for parish of St. Landry with capacity for 50 prisoners and to cost not more than $35,000.

KNOXVILLE, TENN.—Contract for erecting Centenary M. E. Church, South, on North Broadway, was awarded to J. W. Allison & Sons, City, by Baumann Bros., Archs. Cost, $30,000.

CLEVELAND, O.—Bids are asked by J. F. Herrick, Clk. Bd. Education, 201 Cuyahoga Bldg., until Aug. 6 for the erection of a high school building. Plans and specifications can be seen at office of Searles & Hirsh, Archs., 308 Electric Bldg.

CINCINNATI, O.—McLaughlin & Gilmore, Archs., have completed plans for the first of the Carnegie libraries. It is to be constructed of sandstone, 70 × 100 ft., arranged for 30,000 volumes. The endowment of Mr. Carnegie provides for five libraries, to be built in various parts of the city. The site for the first is at Locust St. and Kemper Lane.

CINCINNATI, O.—Bids are asked by Board Public Service until Aug. 17 for improvements of infirmary at Hartwell, according to plans and specifications prepared by Hannaford & Sons, Archs.

CLEVELAND, O.—J. Milton Dyer, Arch., Cuyahoga Bldg., will start at once preparing plans for new city hall. Cost must not exceed $1,500,000.

COPLEY, O.—Bids are asked until Aug. 10 for erecting a town hall. H. G. Long, Clk.

DAYTON, O.—The Y. M. C. A. will shortly erect a new building to cost $350,000. It will be 136 × 220 ft., and eight stories high.

LANCASTER, O.—Church of Christ congregation will erect a new church here.

RANDOLPH, O.—W. P. Ginther, Akron, O., is taking bids on erection of a brick and stone church for St. Joseph's Roman Catholic Congregation. Cost, $40,000.

TOLEDO, O.—New government building will be erected on the block bounded by Madison, Jefferson, 13th and 14th Sts.

ELKHART, IND.—The contract for the new post office building has been awarded to W. J. McAlpine of Dixon, Ill. for $58,400.

FORT WAYNE, IND.—The Fort Wayne Building Co. has been incorporated with a capital stock of $175,000. E. C. Rurode, City, is interested.

GREENSBURG, IND.—The contract for the erection of the new wing to the I. O. O. F. Home has been awarded to Pulse & Porter, this city. Consideration, $43,985. The new building will be two stories, 170 × 160 ft. It will be connected with the old building by an arcade 100 ft. long.

KENDALLVILLE, IND.—Bids are asked until Aug. 8 for a high school building, with steam-blast heating system for this, and another 12-room school building, one heating plant to operate both. Plans and specifications can be had of C. G. Weatherhogg, Arch., Fort Wayne, Ind., or Board of Education, Kendallville, Louis Beckman, Pres. Bd. Education.

DETROIT, MICH.—Bids are asked by James Knox Taylor, Supv. Arch., Washington, D. C., until Aug. 25 for construction of the extensions to U. S. court house and post office building at Detroit.

GRAND HAVEN, MICH.—Bids are asked by the Supervising Architect, Washington, D. C., until Sept. 15, for construction, including plumbing, heating apparatus, electric wiring and conduits, of U. S. post office and custom house at Grand Haven. James Knox Taylor, Supervising Arch. (Advertised, Engineering News.)

KALAMAZOO, MICH.—A school and sanitarium, to be known as "Temple Tower," will be built here by Mrs. May Cecil Lincoln, of Buffalo, N. Y. Cost, $500,000.

WEST BAY CITY, MICH.—Bids are asked by John M. Roy, Clk. Bd. of Education, until Aug. 5 for construction of a 12-room school. Plans and specifications may be seen at office of Clerk & Munger, Archs., 414 Shearer Bros. Block.

CHICAGO, ILL.—D. E. Postle, Arch., 204 Dearborn St., is preparing plans for a high school building, to be erected at Elgin. Cost, $120,000. The same architect is at work upon plans for a church to be built at Jackson Boulevard and South 46th St., for the Calvary Presbyterian congregation. It will be of stone, 75 × 125 ft., and will have slate or tile roof. Cost, $65,000.

CHICAGO, ILL.—The Women's Athletic Club will this fall commence the erection of a 12-story building, which will cover both the site of the present headquarters and the lot adjoining to the north. Cost, $1,000,000.

The building department has approved the plans for Marshall Field & Co.'s new warehouse, to be erected at the river, Eleventh and Polk Sts. The building will be 13 stories, and cost $500,000.

F. J. Fadner has had plans prepared by Bishop & Co., Archs., 113 Adams St., for a flat building, to be erected at Warren and Hermitage Aves. The building, which is to be three stories in height, will have a frontage of 65 ft. and a depth of 90 ft., and contain six apartments. Brick and stone are to be used for exterior, and interior will be finished in hard woods, with marble and mosaic. Cost, $60,000.

Wm. M. La Moyne is about to erect a 4-story storage warehouse on Wells St., 110 × 96 ft. Est. cost, $45,000.

CHICAGO, ILL.—The Labor Temple Committee of the Chicago Federation of Labor has recommended that a $3,000,000 building be erected.

The Sisters of the Sacred Heart, whose convent is at North Clark St. and Dewey Place, are contemplating the erection of a large hospital at Lake View Ave. and Deming Pl. It will be a 5-story building, brick and stone. Cost, about $100,000.

D. H. Burnham & Co., Railway Exchange Bldg., are preparing plans for an office building, to be erected at 173 and 175 Jackson Boulevard, for Levy Mayer. The building to be 14 stories, 50 × 165 ft., of fireproof construction, with all modern improvements. Cost, $400,000.

Illinois Tunnel Co. will soon begin work on proposed terminal and storage plant, to be constructed on the dock property along the west side of the Chicago River, extending north from Taylor St. It will be twelve stories, 404 × 699 ft.; five stories will be below the street level.

MILWAUKEE, WIS.—Two warehouses will be erected by William Franzen. They will occupy the entire block between Florida and Oregon St., near Davidson St. Each five stories high; of brick; mill construction. They will be connected with steel bridges and passageways. Cost is estimated at $120,000.

Plans are now being prepared for the new general office and exchange building to be erected on Fifth St. by the Wisconsin Telephone Co. Cost, about $100,000. Six stories, of fireproof construction.

RIPON, WIS.—Bids are asked by Secretary Ripon Public Library Board, until Aug. 15, for erecting a one-story and basement building for a public library, according to plans and specifications on file with the secretary and at the office of C. C. Anderson, Arch., Waukesha, Wis.

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FAIRFIELD, IA.—It is reported that Parsons College may secure a Carnegie donation of the erection of a library building. It is also reported that a $50,000 chapel building may be erected, and also a gymnasium.

MARSHALLTOWN, IA.—Bids are asked by Supervising Architect, Washington, D. C., until Sept. 6 for construction, including heating apparatus, electric wiring and conduits, of U. S. post office in this city. James Knox Taylor, Supervising Arch. (Advertised, Engineering News.)

DAWSON, MINN.—Bids are asked by C. H. Sullivan, Secy. Bd. of Education, until Aug. 25 for erection of a school building. Fremont D. Orff, Arch., of Minneapolis.

DULUTH, MINN.—The County Board has decided to build a new court-house on the old site at Second St. and Sixth Ave. East. Cost, $400,000.

ST. PAUL, MINN.—St. Paul contemplates the erection of two new high schools and other school buildings, to cost $318,500.

ST. PAUL, MINN.—The Board of School Inspectors has recommended the construction of a number of new school buildings, additions to others, and extensive improvements in a number of the buildings, to cost $318,500.

HALSTEAD, KAN.—W. C. Hinkle, Mayor, writes us that bids are asked until Aug. 15 by Board of Education for erection of a stone and brick 8-room school. H. M. Hadley, Arch., Topeka, Kan.

OMAHA, NEB.—Plans will be prepared for the proposed Y. M. C. A. building. Cost, $225,000. B. C. Wade, Genl. Secy.

FARGO, N. D.—Johnson & Powers, City, were awarded contract for new court-house building at $92,500. Building will be constructed of Cleveland Sandstone Co.'s gray canyon stone, with pressed brick superstructure. Fargo Plumbing & Heating Co. was awarded the heating and plumbing contract at $7,584.

FORT MACKENZIE, WYO.—Bids are asked by Capt. Thos. Swobe, Q.M., until Aug. 9 for constructing a brick gymnasium and post exchange building, including plumbing, heating, gas-piping, electric wiring and gymnastic apparatus. Plans and specifications may be found at offices of the Chief Quartermasters at Denver, Omaha, St. Paul and Chicago and at this office.

LARAMIE, WYO.—Bids are asked by Treasury Department, James Knox Taylor, Supv. Arch., Washington, D. C., until Sept. 14 for construction (except heating apparatus) of the U. S. Post Office at Laramie, in accordance with drawings and specifications, copies of which may be had at Washington or at the office of the Postmaster at Laramie.

ST. JOSEPH, MO.—W. J. Alpine, of Dixon, Ill., was the lowest bidder, at $148,600, for extension of the federal building. Work will be started at once.

FAYETTEVILLE, ARK.—The contract for the new Washington county court house was let to G. W. Donaghey, of Conway, Ark., for $90,000. Work will begin at once.

AMARILLO, TEX.—Bids are asked by County Commissioners until Aug. 15 for construction of a court house to cost $40,000, and a jail to cost $10,000.

DALLAS, TEX.—The Majestic Apartment Building Co. has been organized to erect an apartment house at a cost of $150,000. Thomas Narcrosse is Pres.

EL PASO, TEX.—A 4-story lodge building, to cost between $50,000 and $100,000, will be erected here. Secretary of the Commercial Club may be addressed.

TAYLOR, TEX.—Bids will soon be asked for construction of a new city hall building.

CRIPPLE CREEK, COLO.—J. E. Devey, of Victor, has been awarded contract for the construction of the new court-house, at $52,980.

DENVER, COLO.—Permits were taken out by the Board of Education for the erection of additions to two school buildings. The first permit was for a $25,000 2-story brick addition to the Lincoln school at South Broadway. The other is for the addition to the Boulevard school, at West 24th Ave. and Boulevard F. Cost, $42,000.

ALAMAGORDO, N. MEX.—Frank H. Paradice, Arch., of Denver, Colo., was awarded the contract for making the plans for the New Mexico blind asylum. Cost, $150,000.

BREMERTON, WASH.—The following bids were received by Bureau of Yards and Docks, U.S.N., Washington, D. C., July 30, for extension of general storehouse, Building No. 59, Navy Yard, Puget Sound; Mordecai T. Endicott, Ch. of Bureau: Walter Bros. & Randall, 17 Colonial Bldg., Seattle, $50,638; T. Ryan, 28 Sullivan Block, Seattle, $49,050; Hastie & Dougan, 405 Washington Bldg., Seattle, $51,298.

The contract for construction of plate-metal shop at the navy yard has been awarded to Walters Bros. of Seattle, at their bid of $45,239.

PORT TOWNSEND, WASH.—Bids are asked by Geo. H. Penrose, Q.M., U.S.A., Fort Flagler, until Aug. 27, for installing hot water heating plants in Fort Flagler. Full information will be furnished at this office, or upon application at the office of Depot Quartermaster, San Francisco, Cal.; Portland, Ore.; Seattle, Wash.; or St. Paul, Minn.

SEATTLE, WASH.—The Occident Fruit Co. has filed plans and taken out a permit for a 5-story brick warehouse at 501-511 First Ave. South, to cost $150,000.

SEATTLE, WASH.—The plans for the new Hambeck Block, on Third Ave. South, are almost completed. The building will be four stories, brick, to be used for mercantile purposes, and will cost $50,000. The foundation of piles will cost $2,500. Work will be commenced in a short time.

ASTORIA, ORE.—Bids are asked by Committee on Public Property of Council, City Hall, until Aug. 8 for construction of a city hall. J. H. Hansen, Geo. Kaboth and L. Lebeck, Com. on Pub. Property.

ALHAMBRA, CAL.—Bids are asked by the High School Trustees until Aug. 10 for constructing a high school building. Cost, $45,000.

LOS ANGELES, CAL.—Hunt & Eagle, of Los Angeles, have been authorized to draw plans for the proposed club-house for the Shakespeare Club.

A building permit has been issued to Fraternal Brotherhood for construction of a 4-story temple at 845 South Figueroa St., to cost $50,000.

PASADENA, CAL.—Matthew Slavin has been awarded the contract for construction of the Masonic Temple at $50,000.

WATER SUPPLY AND IRRIGATION.

CORINNA, ME.—Water-works discussed.

WILTON, N. H.—We are informed that contract for 900 tons of water pipe for water system for this place has been let to Donaldson Iron Co.; contract for hydrants was let to Ludlow Valve Co.; contract for constructing the works was let to Loring N. Farnum, Boston, Mass.

BROCKTON, MASS.—Chas. R. Felton, Cy. Engr., is stated to be working on plans for proposed new standpipe to be erected on Cary Hill.

EASTHAMPTON, MASS.—Engineers E. G. and E. E. Davis, of Northampton, Mass., are stated to be laying out the work for the improvement of the Mt. Tom reservoir, which will probably be done by the water commissioners without letting a contract.

SALEM, MASS.—Water Board, according to reports, is to ask Council to set aside about $6,000 annually for installing meter system.

GROTON, CONN.—Borough is negotiating for purchase of plant of Groton Water & Electric Co. C. Tyler Landphere is Warden.

BATAVIA, N. Y.—Mayor Burkhart has received from the National Roche Filtering Co., Buffalo, N. Y., three propositions for installing a plant to filter water taken from the Tonawanda Creek.

BUFFALO, N. Y.—Report of George W. Fuller, Consult. Engr., New York, on city's water supply is stated to recommend removal of intake pier from its present location to do away with danger from sewage contamination. The construction of a filtration plant later on is also recommended.

Report of Wm. H. Johnson, Gen. Inspector of National Board of Fire Underwriters, who has recently inspected fire protection facilities of this city, is stated to recommend that present batteries of boilers at the pumping station should be replaced with at least ten of the most improved pattern; that the present pumping engines should be replaced with the same number of more powerful triple-expansion engines, each of 30,000,000 gallons daily capacity; fire boat auxiliary line of mains for the congested business section; construction of an additional and independent fireproof pumping and boiler station with fire walls between pumping and boiler rooms, and installation of machinery and electric power pumping engines to secure at least 100,000,000 gallons additional water per day. Col. Francis G. Ward is Comr. Pub. Wks.

P. H. Kane, at $34,800, was low bidder, July 26, for repair work to Engine 8 at water-works pumping station.

HAMMONDSPORT, N. Y.—Board Water Commissioners are considering increasing water supply.

HORSEHEADS, N. Y.—R. G. Eisenhart, Village Pres., writes us that S. M. Neff, 93 Liberty St., New York, was awarded contract for village water-works. Bids were received July 26.

ITHACA, N. Y.—Water Board has ordered plans and specifications prepared for an entirely new system of water-works to distribute the artesian water supply.

NEW YORK, N. Y.—The A. D. Granger Co., Contracting Engrs., 95 Liberty St., New York, have secured contract for pumping plant for Staten Island Water Supply Co., at Bulkhead Station, and are open for bids for smaller machinery, etc., contracts having already been let for 2,000,000-gallon pump to Heisler Pumping Engine Co., Pittsburg, Pa., and for boilers to Union Iron Works Co.

NIAGARA FALLS, N. Y.—Local reports state that contract for construction of canal of the Niagara County Irrigation & Water Supply Co. has been awarded to the Frontier Construction Co., of New York, which was incorporated about a year ago with a capitalization of $500,000. J. S. Williams, Glastonbury, Conn., was one of the incorporators.

POLAND, N. Y.—Bids are asked by Water Commissioners E. L. Coon, Chn., until Aug. 22 for construction of gravity water system, requiring about 64 tons 10-in., 157 tons 8-in., 45 tons 6-in., and 76 tons 4-in. cast-iron water pipe, 22 hydrants, gates, gate boxes, 5,500 cu. yds. earth embankment, and 1,800 cu. yds. earth excavation. W. G. Stone & Sons, Engrs., 47 Mann Bldg., Utica, N. Y.

SILVER SPRINGS, N. Y.—H. I. Conneyman, Village Clk., writes us that contracts for village water-works, bids for which were opened July 29, have been let as follows: Construction, Fritz & Patridge; pipe, Miller's Sons & Co.; valves and hydrants, Eddy Valve Co.

EAST ORANGE, N. J.—Contract for furnishing 705 tons c.-i. pipe and seven tons special castings was let to Warren Foundry & Machine Co., 170 Broadway, New York. Contract for distributing and laying 9,000 ft. 12-in., and 5,300 ft. 16-in. pipe was let to Stone, Grossart & Co., Rothschild Bldg., Philadelphia. Bids were received July 25.

GLOUCESTER CITY, N. J.—Council has rewarded contract for laying water pipe in Mercer and Fillmore Sts. to J. Smith for $4,500.

CAMDEN, N. J.—The Commonwealth Water Improvement Co., of Camden, has been incorporated with an authorized capital stock of $500,000. The incorporators are: I. H. Hicks, Edward Fell Lukens, William S. Wallace and George H. B. Martin, all of Camden. The company is to build, enlarge and install works or plants of public or general use and utility.

ALIQUIPPA, PA.—Chandley Bros., Beaver Falls, Pa., have been awarded contract, at about $14,000, for installing water-works here. Bids were opened July 25.

HARRISBURG, PA.—Charters have been issued for the following water companies: The Snowden Water Supply Co., Pittsburg, $5,000. Directors, B. C. Hovis, M. J. Aikin, Crafton; S. G. Goodwin, D. B. Ludwick, Wilkinsburg; Herbert Hunt, Pittsburg.

The Bethel Water Co., Pittsburg; Goodwin Water Co., Pittsburg; Scotia Water Supply Co., Pittsburg; Collier Water Supply Co., Pittsburg, each with a capital of $5,000. Directors, B. C. Hovis, M. J. Aiken, Crafton; S. G. Goodwin, D. B. Ludwick, Wilkinsburg; Herbert Hunt, Pittsburg.

The Idaho Water Co., Bellevue; $5,000. Directors, J. C. Bily, Allegheny; J. G. Evans, F. A. McKenny, Pittsburg.

The Colorado Water Co., Benavon; Vermont Water Co., Avalon; Arizona Water Co., Emsworth, each with $5,000 capital. J. C. Bily, Allegheny, is treasurer of all these companies.

LORETTO, PA.—Charles M. Schwab is stated to have offered to pave the village streets, underlay them with sewer and water mains, and to build a water-works and electric light plant at a cost of $1,000,000.

LOYSVILLE, PA.—Contract for building new waterworks at Tressler Orphans' Home has been let for $4,200 to W. W. Williams, Carlisle, Pa., and will include construction of 25,000-gallon reservoir and about 7,000 ft. of mains.

PHILADELPHIA, PA.—Bids are asked by Peter E. Costello, Director Pub. Wks., until Aug. 11 for sand washers and ejector pipes for Torresdale Filters, and for washers, boxes, and piping for foundation bolts of engines at Lardners Point Pumping Station, No. 3. (Advertised, Engineering News.)

SCOTTDALE, PA.—C. W. Knight writes us that Citizens' Water Co. commenced immediate repair of their broken dam, expecting to have it practically completed in 60 days. Press reports of July 16 stated that this dam had burst, causing loss of $50,000.

WEST HOMESTEAD, PA.—Municipal works agitated. Proposed to sink wells in West Run. Est. that system can be put in for $30,000. (Post Office, Homestead.)

FORT HOWARD, MD.—Bids are asked by Constructing Quartermaster until Aug. 20 for furnishing all material and labor for increasing the water storage capacity at Fort Howard, Maryland, viz.: Furnishing and installing one 150,000-gallon tank and trestle, pressure pump, air compressor, filter, boiler, necessary pipe connections, and addition to boiler house to accommodate additional machinery. Lieut. S. Avery, Jr., Constructing Quartermaster.

PORTSMOUTH, VA.—Portsmouth, Berkley & Suffolk Water Co. will, it is stated, expend $100,000 in building another large pumping station in Portsmouth, a duplicate of the plant in Suffolk, and in laying additional mains in Berkley and Portsmouth, about $25,000 of which is to be spent in Berkley.

MARION, N. C.—We are informed that this town has voted $5,000 for water-works and will be ready for bids soon.

BATESBURG, S. C.—Contract is stated to have been let to Frederick Minshall, Abbeville, S. C., for construction of water and electric light plants for the town, the cost not to exceed $18,500. Water is to be secured from five tubular wells and will be stored in 60,000-gallon stand-pipe.

LAKELAND, FLA.—We are informed that W. D. McRae, D. Sloane and Capt. W. B. Bonacker, Bond Commissioners for town of Lakeland, Fla., will immediately put in system of water-works at that place. They will want to purchase a 100-ft. tower and tank, 50,000 gals. capacity; 4, 6 and 8-in. lead pipe, specials, tools, water plugs, pumps, etc. W. B. Clay, C. E., Lakeland, is making plans and surveys, and will have charge of construction. D. Sloane, Secy., should be addressed.

GADSDEN, ALA.—By recent decision of Supreme Court this city can now build its own works. $100,000 of bonds for this purpose were voted some time ago.

ABERDEEN, MISS.—Local press report states that A. L. Dabney, who was last week awarded the engineering contract for the Aberdeen water-works and sewerage system, has begun the surveys of the city. This work will be completed in about two months.

CORINTH, MISS.—Bids are asked until Sept. 6 for construction of water-works and system of sanitary sewers. C. H. Jenks, Engr., Fayette, Miss.; T. K. Young, Mayor. (Advertised, Engineering News.)

WOODVILLE, MISS.—Town votes to issue $7,500 additional bonds for water-works and electric lights.

CHATTANOOGA, TENN.—Sherman Heights Business League, J. C. McGhee, Pres., has appointed committee to frame a charter for the East Chattanooga Water Co., which is to have capital of $20,000, and will supply Sherman Heights and East Chattanooga.

KNOXVILLE, TENN.—This city has voted to issue $750,000 of bonds for municipal water-works, and S. J. Moreland, Cy. Engr., writes us that the Water-Works Commission, J. Allen Smith, Chn., has employed Owen Ford, St. Louis, Mo., to prepare plans and specifications. Source of new supply is Tennessee River, four miles from city.

SPRINGFIELD, TENN.—Plans, maps and specifications for proposed water-works and electric light system for this town are on file at office of Engineering News, 220 Broadway, New York. Bids are asked until Aug. 10, as advertised in Engineering News.

BELLAIRE, O.—Contracts for water main extensions for this place to cost about $40,000 are stated to have been let as follows: Excavation, laying pipe and refilling, M. A. Castone and C. A. Warner; pipe, U. S. Cast-Iron Pipe & Foundry Co.; hydrants, boxes and brass gates, Bourton Copper Co., Cincinnati, O.

HARTWELL, O.—Bids are asked by Board of Public Service until Aug. 17 for a reinforced concrete reservoir at the city infirmary, Hartwell.

MARIETTA, O.—Norwood Engineering Co., Florence, Mass., is reported to have received contract for constructing mechanical filter plant for this city, to cost $68,890.

NEW CARLISLE, O.—The Mayor writes us that they have advertised for proposals for furnishing water for fire protection purposes. Bids are to be opened Aug. 9.

PORTSMOUTH, O.—Council is stated to be considering improvement of local water-works.

TOLEDO, O.—Ordinance was to come before the Council July 25 providing for a bond issue of $500,000 to be used in the building and equipping of a water filtration plant. This issue of bonds, if approved by the Council, will be made without a vote of the people.

EVANSVILLE, IND.—Bids are asked by Trustees Water-Works until Aug. 8 for making repairs at pumping station, to include excavation, driving piles, taking up and relaying slope paving, and taking up and relaying of three intake pipes. F. D. Caldwell, Cy. Clk.

ELKHART, IND.—Elkhart Water Co., Elliott Crull, Supt., may erect new $40,000 pumping station.

BELDING, MICH.—George W. Moulton, Cy. Clk., is asking bids until Aug. 5 for purchase of $10,000 of water bonds.

BRADLEY, ILL.—George C. Morgan, Chicago, Ill., is drawing plans for proposed water-works for this place.

CHICAGO, ILL.—Bids will be received by the Department Public Works, 222 City Hall, until Aug. 6 for approximately 5,000 pieces of 6-in., 4,000 pieces of 8-in., 300 pieces of 12-in. and 350 pieces of 16-in. cast-iron water pipe. Cash or certified check on a local bank $5,000. Plans, etc., at office of Board. F. W. Blocki, Comr. Public Works.

YORKVILLE, ILL.—Bids are asked by George Ohse, Village Clk., until Aug. 8 for 2,330 ft. 6-in. pipe, 3,330 ft. 4-in. pipe and twelve hydrants for water-works system. Also proposals for laying pipe. Plans at offices of City Engineer, Aurora, Ill., and Village Clerk of Yorkville.

Information concerning contracts to be let or supplies to be furnished, and corrections of errors and omissions in published items, are invited. Full details regarding the equipment, tools, etc., required for the proposed improvements are specially desired.

BURLINGTON, IA.—Contract for constructing four steel tanks, auxiliary to present filtering plant, has been let to Murray Iron Works, Burlington, for about $10,000.

ELDRIDGE, IA.—Town Clerk is reported to be again taking bids for construction of water-works. Bids will be received until Aug. 8, and system is to include a steel tank with 55,000 gallons capacity, a 12-HP. combined gasoline engine and pump to be erected on concrete foundations, and the furnishing and placing of 60 tons of pipe, 300 lbs. of castings, 14 hydrants and 12 valves. W. H. Kimball, McManus Bldg., Davenport, Ia., is Engr.

ALBIA, IA.—Mayor W. H. Hardenwork writes that franchise for new water-works has been granted C. R. Reese, and he is now making preliminary surveys, etc. It is probable that contracts for pumps, etc., may be let about Sept. 1. Est. cost of system is $70,000.

DES MOINES, IA.—Stated that contract for three, 100,000 gallons each, reservoirs at Independence State Hospital will be let to Western Steel Construction Co., Des Moines.

EVELETH, MINN.—$50,000 issue of bonds has been approved and it is stated that this place will now call for bids for construction of water-works system from St. Mary's Lake, three miles from city.

KASSON, MINN.—Contract for extension of village water mains has been let to W. I. Gray & Co., Minneapolis, Minn., for $3,357.

BURLINGTON, KAN.—Local water company, which has been operating at a loss, has, it is stated, given notice that it will shut down its works. City may buy plant.

MANHATTAN, KAN.—Bids are asked by H. W. Hungerford, Cy. Clk., until Aug. 16 for constructing a concrete lining in reservoirs.

GREAT FALLS, MONT.—Final surveys are stated to be under way by U. S. Government engineers for irrigation work along the Milk River, and it is hoped to have plans ready for submission to board of consulting engineers by latter part of August. The work will involve expenditure of $3,000,000. H. N. Savage, Salt Lake City, Utah, is Supervising Engr. for reclamation work in this section.

GREAT FALLS, MONT.—Bids are asked by City Clerk until Sept. 5 for furnishing and erecting steel storage stand-pipe 40 ft. in diameter by 60 ft. high. D. L. Ellis, Cy. Engr.; J. E. Moran, Cy. Clk. (Advertised, Engineering News.)

CLARK, S. DAK.—City votes to issue $18,000 of bonds for installing works.

LITTLE ROCK, ARK.—Council Fire and Water Committee has located five miles of additional pipe line authorized under agreement with Home Water Co., and 1½ miles additional have been asked for.

TEXARKANA, ARK.—A franchise has been granted by the City Council of the Arkansas side to a Mr. Pender for a water-works plant for a period of fifty years.

EL PASO, TEX.—B. M. Hall, Engr. U. S. Land Reclamation Project, is reported to have stated that the Government will construct a large reservoir near this city.

WHARTON, TEX.—City has purchased water-works of Otto Klein & Co. for $5,400. Improvements may be made.

MUSKOGEE, IND. T.—Council has petitioned for special election to vote $100,000 of bonds for extension and improvement of water-works. Plant was recently completed at a cost of $175,000.

DURANGO, COLO.—Committee, Mayor Ludlow, Member, is to confer with local water company on purchase of its plant by city.

JULESBURG, COLO.—Julesburg Irrigation District has been formed, and will, it is stated, let contract to D. A. Camfield, Greeley, Colo., for the construction of a reservoir, to furnish water for 30,000 acres, and which will cost about $300,000. J. L. Elhart, Frank Herfert and E. B. Davis are Directors of District.

MONTROSE, COLO.—Bids are asked by U. S. Reclamation Service, Montrose, until Oct. 5, for construction of Gunnison Tunnel and approaches, involving 30,000 lin. ft. of tunnel and about 120,000 cu. yds. excavation in open cut at lower portal, the work being for the diversion of about 1,300 cu. ft. of water per second from the Gunnison River to the Uncompahgre Valley. (Advertised, Engineering News.)

MONTROSE, COLO.—Bids are asked at office U. S. Reclamation Service, Montrose, until Sept. 15 for construction of about 15 miles of main distributing canals, involving about 700,000 cu. yds. earthwork, for the conveyance and partial distribution of about 1,300 cu. ft. of water per second from mouth of Gunnison Tunnel to point on Uncompahgre River. (Advertised, Engineering News.)

KELSO, WASH.—Town is stated to be negotiating for installation of water-works.

MABTON, WASH.—According to statement of Charles Wand, Surveyor for Klickitat Development Co., the company has secured the right for 2,800 cu. ft. of water from Klickitat River and will have its intake about 70 miles west of Bickleton. It will be necessary to flume for about five miles at the commencement. About 300,000 acres are to be benefited. The main canal is to be 90 ft. wide at the top and 60 ft. at the bottom, and the average depth of water will be 8 ft. The survey, which is now in progress, will be completed this fall, and active construction will begin early in the spring. The total cost will be in the neighborhood of $2,000,000.

NORTH YAKIMA, WASH.—A. A. Nicols and D. T. Daniels have filed papers appropriating 400 cu. ft. of water per second from Nachez River about 20 miles west of this city. It is said that the water is to be used to supply North Yakima with a second system of water-works.

PORT TOWNSEND, WASH.—The City Clerk writes us under date of July 27 that plans and specifications are now ready for gravity water-works. Bids will be advertised for next week. Source of supply, Olympic Mountains, 18½ miles distant, and est. cost is $250,000.

WALLA WALLA, WASH.—R. H. Thomson, Cy. Engr., Seattle, Wash., has been investigating Mill Creek for an extension of the water mains of this city. Ernest Knight is Supt. W.-W.

PORTLAND, ORE.—D. D. Clark, Engr., has presented plans to Water Board for water system for Peninsula District, est. cost of which is $200,000.

Water Board has awarded contract for 100 fire hydrants to Oregon Foundry Co. for $4,000. Contract was also let to Geibish & Joplin for partial repair work on City Park reservoirs for $12,000.

COLTON, CAL.—One of the city pumping plants in Lytte Creek region is stated to have been destroyed by fire.

KINGSBURG, CAL.—Kingsburg Colony Ditch Co. has been incorporated with $10,000 capital. Levi Garrett and John F. Forney are interested.

MONTAVALO, CAL.—Montavalo Water Co. has been incorporated with $10,000 capital. Company has one well from which 40 ins. of water is pumped for irrigation purposes.

OROVILLE, CAL.—Clark Standiford has filed on 6,000 ins. of water in Middle Fork of Feather River.

MARYSVILLE, CAL.—S. B. Johnson has had recorded in this county five notices of water locations, one on Deadwood Creek for 300 miners ins., and other four for 1,000 ins., each are at points on Slate Creek. The notices state that water is to be diverted by means of dams, ditches and flumes and conveyed into Butte County, where it will be used for irrigation, mining, power and electrical generation.

MAYFIELD, CAL.—Bids were received here July 18 for constructing water-works. C. C. Moore & Co., at $32,265, were only bidders for entire work.

SAN FRANCISCO, CAL.—Bay Shore Water Co. has been incorporated with $250,000 capital. T. B. Potter, G. B. Campbell, F. L. Potter, A. C. Campbell and F. M. Potter are interested. Company will supply residents of the Reis tract with water.

TURLOCK, CAL.—Turlock Irrigation District was to sell Aug. 2, $65,200 of bonds. John L. Brown is Secy.

VALLEJO, CAL.—City Engineer estimated cost of renewing with 14-in. cast-iron pipe the line from a point near Creston to the Green Valley dam at $106,492.

PRESCOTT, ARIZ.—Plans, specifications and bidding sheet for construction of water distributing system and reservoir at Whipple Barracks, Ariz., are on file at office of Engineering News, 220 Broadway, New York. Bids are asked until Aug. 27 as advertised in Engineering News.

IDAHO FALLS, IDAHO.—City will vote in August on enlargement of municipal water-works.

MOOSE JAW, ASSA.—Contract for machinery for water-works and electric light plant is stated to have been let July 19 to Robb Engine Co., Amherst, N. S. Contract includes two Robb Manniford boilers, 125 HP. each, and one tandem compounder condensing engine, 150 HP., with condenser and feed water heater.

SMITHS FALLS, ONT.—By-law is to be voted on to raise $8,000 for water-works pumps.

GIBSON, N. B.—Reservoir for fire protection purposes to cost $15,000 is to be constructed, according to reports. James Ruel may be interested.

SEWERAGE.

BEVERLY, MASS.—Mayor Parker A. Davis writes that bids will be called within a few weeks for the following work: About 1,200 ft. 20-in. pipe sewers, average cut 17 ft.; pumping plant for sewage; 900 ft., 8-in. pipe sewer; also for new street 3,200 ft. long, 50 ft.; est. cost, $25,000. Wm. J. Berry is Cy. Engr.

BROOKLINE, MASS.—Contract for construction sewer in Beacon St. playground was let to Thos. J. Kelley for $2,485.

SOUTH HADLEY FALLS, MASS.—Henry W. Warner, Florence, Mass., at $10,107, was low bidder for constructing sewer here, and Moriarty Bros., South Hadley Falls, at $10,571, was next lowest. Contract was to be let July 25.

SPRINGFIELD, MASS.—Contract for Mill River sewer is stated to have been let to D. J. Curtis for about $42,000.

BUFFALO, N. Y.—The Aldermanic Committee on Sewers has voted in favor of letting the contracts for the building of the $74,000 Tifft St. sewer. There has been much opposition to this project by residents in that district.

BUFFALO, N. Y.—Bids are asked by Department Public Works until Aug. 12 for constructing following sewers: 20, 18, 15, 12 and 10-in. tile sewer in Folger St.; 12-in. tile sewer in Hilton St.; 12-in. tile sewer in Clio Ave.; 18, 15, 12 and 10-in. tile sewer in Whitfield Ave.; 12 and 10-in. tile sewer in Hillside Ave.; 10-in. tile sewer in west side of South Park Ave. Francis G. Ward, Commissioner Pub. Wks.

COLD SPRING, N. Y.—Contract for sewerage system for this place, requiring about 30,178 ft., 8 to 24-in. pipe sewers, 123 manholes, 200 lin. ft. pipes, 1,400 cu. yds. rock excavation and 10,000 M. timber foundation has been let to Vogel & Collins, Passaic, N. J., at $36,831. Bids opened July 27.

DESPATCH, N. Y.—Despatch Sewage & Reduction Co. has been incorporated to remove garbage, etc., with capital of $300,000. E. C. Snow, Fairport; E. H. Denniston, Brockport, and C. E. Shuster, Penfield, are interested.

DUNMORE, N. Y.—James F. Horan, Boro Engr., writes us that bids were opened July 22 for constructing 1,200 ft. 10 and 12-in. pipe sewers, average cut 10 ft., and est. cost, $3,794. Bids were received as follows and contract was to be let Aug. 2: M. J. Gibbons, $3,757; O'Boyle & Kuhner, $4,643; John Brown, $6,090.

LESTERSHIRE N. Y.—The plans for the proposed sewers have been sent to the State Health Department for approval, and the men in charge of the work are now arranging to obtain the rights of way.

NORTH TONAWANDA, N. Y.—Board Public Works has let contract for furnishing pipe and Ys to be used in the construction of sewers under the annual appropriation of $6,000 to George F. Meyers, North Tonawanda.

ST. JOHNSVILLE, N. Y.—Special election to vote on sewer system is being petitioned for.

WEST SENECA, N. Y.—Plans for construction of a sewer to drain that section of West Seneca south of the Lake Shore track have been considered by Town Board. Dennison Fairchild, C. E., Hamburg, N. Y., prepared the plans and specifications for the proposed sewer, which is to cost about $150,000. Michael T. Curry is Town Clk.

DELFORD, N. J.—Bids are asked until Aug. 15 for constructing sanitary sewer system and septic tank, to consist of about five miles of vitrified pipe and specials of from 8 to 20-in. diameter, also about 90 manholes and 16 flush tanks, etc. P. E. Van Buskirk, Engr., Rutherford, N. J.; Henry A. Bingham, Borough Clk. (Advertised, Engineering News.)

HOLLYBEACH, N. J.—City Council has decided to build eight mile sewer system at a cost of $30,000.

TRENTON, N. J.—It is stated that bids will be submitted to City Council at its last meeting in August for construction of drain in 12th Ward at an est. cost of $100,000.

BEAVER FALLS, PA.—Ordinance has been before Council providing for election Sept. 20 to provide for $150,000 bond issue, $140,000 of which is for completion of sewer system, and the remainder for a storm sewer in 25th St.

CLARION, PA.—Bids are asked by Borough until Aug. 8 for constructing 4,000 ft. 12-in. and 100 ft. 10-in. tile sewer.

HOLLIDAYSBURG, PA.—Sewer Committee has been discussing the plans for a sewer for the northeastern portion of town, extending to the Brush Run.

MOUNT CARMEL, PA.—Bids are asked until Aug. 20 for construction of cement, brick and terra cotta pipe sewers, from 11 ft. in diameter to 8-in., with manholes and storm water inlets. T. Chalkley Hatton, Consult. Engr., Wilmington, Del.; John F. Gibbons, Chn. Sewer Com. (Advertised, Engineering News.)

PHILADELPHIA, PA.—Plans have been approved by Board of City Surveyors for following sewers, with approved costs: McKean St., $30,000; extension of Shunk St. system, $75,000; extension of Frankford intercepting system, $75,000; reconstruction at Girard Ave. and Front St., $75,000; extension of Ogontz St. to Chew St., $50,000; extension of Pratt St. to Foust St., $75,000; Magee St. extension, $40,000; Wissahickon high level cut-off, $50,000; 60th and Trinity to 59th and Chester Ave., $25,000; Twelfth St. relief, Lombard to Locust St., $20,000, Castor Road, Pratt to Sanger St., $30,000; extension of Wingohocking creek to North Penn Railroad, $20,000; Rock Run sewer from railroad to Fairhill, $50,000; 60th and Gibson to 64th and Eastwick, $30,000; Branch Rock Run, on Duncannon, A, Fisher's Lane and Ella St., to Tabor St., $13,000; branch Indian Run, on Lebanon Ave., $12,000; Ninth St., Courtland to Lindley Ave., $25,000; extension of Luzerne St. to Wingohocking St., $5,000.

WASHINGTON, D. C.—Specifications and bidding sheet for constructing sewage disposal system, Water and L St. intercepting sewer are on file at office of Engineering News, 220 Broadway, New York. Bids are asked until Aug. 15, as advertised in Engineering News.

WASHINGTON, D. C.—Bids are asked by District Commissioners until Aug. 29 for constructing portion of sewage disposal system of outfall sewer. Henry B. F. Macfarland, Comr. (Advertised, Engineering News.)

BALTIMORE, MD.—It is reported that city administration may make an effort to begin work soon on proposed sewerage system authorized by the last legislature.

GRIFFIN, GA.—City has voted to issue $65,000 in bonds for a sewerage system.

CANTON, MISS.—City will vote soon on $40,000 bond issue for establishing sewerage.

MEMPHIS, TENN.—J. A. Omberg, Cy. Engr., is preparing plans for sewers in 14th and 15th wards.

AKRON, O.—Council has passed an ordinance to construct a sewer in Sterling Court, also in Long St., and will issue bonds.

COLUMBUS, O.—Local reports state that the village of Arlington is considering the establishing of a sewage disposal plant and the villages of Doublin, and St. Marys of the Springs, are also considering the same question.

DELAWARE, O.—Contract for constructing sewer in West William St., is stated to have been let to C. F. Miller for about $4,800.

DELPHOS, O.—State Health Board has approved proposed sewage plan of this city.

MANSFIELD, O.—Ordinance has been passed for sewering Park Ave.

TOLEDO, O.—Resolutions were to come before the Council July 25 calling for the construction of five new district and two main sewers.

WARREN, O.—We are informed that construction of 2,220 ft. 12-in. sewers, average cut, 10 ft. is proposed. E. M. Milligan is Cy. Engr.

BOONVILLE, IND.—Bids are asked until Aug. 8 for construction of about 5,389 ft. 15-in. vitrified salt glazed pipe sewer. R. D. O'Moore, County Audr.

TERRE HAUTE, IND.—Board Public Works has ordered City Engineer Sparks to prepare plans and specification for pipe sewers to be constructed on South Twelfth, South Thirteenth and Oak Sts.

GRAND RAPIDS, MICH.—The Silver Creek sewer system, that was to have been built at cost of $85,000, in the Eleventh and Twelfth wards of the city, will not be undertaken this year.

WEST BAY CITY, MICH.—Bids are asked until Aug. 8 for material and construction of 12-in. socket tile sewer in Center St. G. M. Staudacher, Cy. Comptroller.

HAVANA, ILL.—Bids are asked until Aug. 24 for constructing brick and tile sewers. J. J. Donaldson, Chn. Com.

KENOSHA, WIS.—City will vote this month on bond issue of $50,000 for building new system, total cost of which is est. at $133,000.

HARLAN, IA.—City has had plans made for sewer system. Councilman E. E. Nichols may be able to furnish information.

ST. PAUL, MINN.—P. J. Ryan was lowest bidder for Aurora Ave. sewer, at $2,773, and was awarded the contract.

City Engineer Rundlett estimates cost of completing St. Anthony Park sewer system and State Fair grounds addition sewer, at $410,000. This includes main sewer to drain state farm.

City Engineer Rundlett has also prepared a preliminary estimate on cost of proposed Grand View Heights sewer system. It is placed at $48,566.

AMES, IA.—Bids were received for constructing sanitary pipe sewers, as advertised for in Engineering News. Shepard & Danrahan, Des Moines, Ia., were lowest bidders at $24,862.

TOPEKA, KAN.—City Engineer McCabe is stated to have completed specifications for the new Fifth Ward sewer. The total length of the sewer, laterals and all will be about 5.3 miles. About 4,878 ft. will be of brick and the remainder of vitrified pipe as follows: 8-in. 9,115 ft; 10-in., 4,036 ft.; 12-in., 4,010 ft.; 15-in., 2,910 ft.; 18-in., 1,573 ft.; 21-in., 1,573 ft.

WICHITA, KAN.—Residents of First Ward are considering means for establishing drainage system in that section. $20,000 has been estimated as cost of satisfactory system.

KANSAS CITY, MO.—Rosedale City Council on July 24 let contract for constructing sewers and catch-basins in Shawnee, Wyandotte and Valley Sts., to O'Connell & Mullins, Kansas City, for $15,000.

MARSHALL, TEX.—It is reported that Severance, Epple & Hayes, Shreveport, La., bid $42,701 for constructing a septic disposal plant for sewer system now being installed.

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OKLAHOMA CITY, OKLA.—We are informed that present storm sewer system is inadequate and that efforts are being made to build extensions or rather two entire new systems.

EUREKA, CAL.—Bids are asked by J. P. Wunderlich, Cy. Clk., until Aug. 9 for constructing extension to the present sewer system.

SAN DIEGO, CAL.—Bids are asked by Board of Public Works until Aug. 11 for furnishing Kalamein pipe for extension of sewer system. F. H. Dixon, Cy. Clk.

SANTA MONICA, CAL.—City may issue $20,000 of bonds for repairing outfall sewer.

BOISE, IDAHO.—Jas. Kennedy, Fargo, N. Dak., at $114,965 was low bidder for constructing main sewer in this city.

NIAGARA FALLS, ONT.—$16,000 by law has been voted to construct trunk sewers in south end of city.

STREETS AND ROADS.

BOSTON, MASS.—The State Highway Commissioners have awarded the following contracts for construction of state highways: E. J. Rourke of Abington, Burlington, $6,608; Lane Construction Co. of Meriden, Conn., Douglas, $4,218; James McCormick of East Providence, R. I., Shrewsbury, $5,729; Wm. N. Flynt Granite Co. of Monson, Longmeadow, $4,647.

HAVERHILL, MASS.—H. W. Hayes, Div. Engr. B. & M. R. R., Boston, writes us that the contract was let to Jos. Ross & Sons, 28 School St., Boston, for work to be done this year abolishing grade crossings.

NEW BEDFORD, MASS.—Board of Aldermen has voted to appropriate $60,000 for highways and streets. Wm. F. Williams is Cy. Engr.

PLAINFIELD, CONN.—The contract for construction of a macadam road here has been awarded to Thomas Kearney, contractor, of Meriden.

WELLSVILLE, N. Y.—A special election will be held Aug. 5 for the purpose of voting on the grading, curbing and paving with vitrified brick on Genesee, Pearl and State Sts. at a total expense not to exceed $16,500. F. M. Leonard, Clk.

PHILADELPHIA, PA.—Bids are asked by Board Public Education, 292 City Hall, until Aug. 9 for paving, grading yard, etc., of McKinley School. Plans and specifications may be seen at architect's office of board, 742 City Hall. A. F. Hammond, Secy.

WASHINGTON, PA.—Citizens of West Washington, at special election, decided to issue $50,000 bonds for street paving.

HAVRE DE GRACE, MD.—City Council has agreed to appropriate $3,500 toward the Belair and Havre de Grace public road improvement.

TAZEWELL, VA.—The city has voted to issue $15,000 in bonds for street improvement. Address the mayor for information.

MEMPHIS, TENN.—It has been decided by the Park Commission to open up Summer Ave. on the north side of Overton Park. The new road will be about one mile in length and will be 120 ft. in width.

KNOXVILLE, TENN.—In the lower board of the General Council a resolution authorizing the mayor to execute notes to the amount of $34,000 for the improvement of streets to the south end of the city in connection with the construction of the 11th St. bridge, was introduced and after passing one reading was referred to a special committee.

CHATTANOOGA, TENN.—The City Council has ordered Devonshire St. graded, and the work will begin shortly. Besides the grading, a 7-ft. cement walk will also be laid.

DANVILLE, KY.—The Boyle County Fiscal Court has voted $2,086 for the purpose of building 1½ miles of turnpike.

LOUISVILLE, KY.—The Board of Works opened proposals for the construction of seven blocks of asphalt streets at an estimated cost of $40,000. The American Standard Asphalt Co. and the Barber Co. were the only bidders. The prices ranged from $1.78 to $1.82 a sq. yd. The awards will be made later. The streets to be constructed are Kentucky and Lee.

AKRON, O.—Dan. W. McGarry was awarded by the Board Public Service the contract for macadamizing Main and Bell Sts. for $9,187 and $8,393 respectively.

AKRON, O.—Contracts were awarded by the Board Public Service for almost three miles of brick paving at a cost of $66,719. The streets to be paved, the contracts and the bids, follow: Berg St., Canton Block brick, Berea curb and concrete base, France & O'Marr, $2,172; Bartges St., Canton Block brick, Berea curb, with slag base, France & O'Marr, $6,549; College St., Akron granite block, Berea curb, with concrete base, James Wildes, $10,092; Buchtel Ave., Malvern medal block, with Berea curb and concrete base, Fred B. Dodge, $8,047; West Exchange St., Akron Standard paving brick, with Berea curb and slag base, P. T. McCourt, $26,653. Contracts were also awarded for the Perkins park boulevard to Hunt & Wigley for $13,295, and for the construction of a sewer on Bachtel Ave. to John Kain for $181.

MARION, O.—Mann & Dwyer were the lowest bidders at $3,572, for macadamizing about 1,510 ft.

MOUNT VERNON, O.—The Council has been petitioned by the property owners to have East Burgess St. paved. Resolutions to build new sidewalks for a number of streets were passed by the Council.

MOUNT GILEAD, O.—Bids are asked by Council until Aug. 17 for paving with brick and laying stone curbs on Marion St. Wm. F. Wieland, Clk.

CLEVELAND, O.—An ordinance passed the Council for the curbing and paving of Japan and Loraine Sts.

LORAIN, O.—A resolution has been adopted by the Council declaring it necessary to curb and pave on Seventh Ave. with sheet asphalt or vitrified brick.

OBERLIN, O.—W. B. Gerrish, Clk. Bd. Trustees of Pub. Affairs, writes us that about 10,000 sq. yds. brick paving will be let Aug. 15.

STEUBENVILLE, O.—The Council has been petitioned to construct sidewalks on East King St.

SANDUSKY, O.—Bids are asked by Board Public Service until Aug. 9 for the grading, curbing and paving of Washington road, Camp and First Sts. Plans and specifications on file at office of City Engineer. Bernard J. M'Gory, Clk.

TROY, O.—Resolutions have been adopted by Council for construction of sidewalks on Cherry and Washington Sts.

ALLIANCE, O.—The Council is considering the paving with brick of South Union Ave.

COLUMBUS, IND.—Bids are asked until Aug. 18 for construction of asphalt pavement on Washington St. Levi Hege, Cy. Civ. Engr., Karls H. Valland, Cy. Clk. (Advertised, Engineering News).

COLUMBUS, IND.—Bids are asked by Wm. A. Morris, Audr. Bartholomew County, until Aug. 6 for constructing several turnpike roads.

INDIANAPOLIS, IND.—Bids are asked by Board Public Service until Aug. 8 for grading and graveling a number of alleys.

INDIANAPOLIS, IND.—The Board Public Works is readvertising for bids for construction of a brick roadway and cement sidewalks in East Washington St. The contract is a large one. M. A. Downing, Chn.

FRANKLIN, IND.—Wm. F. Frey and N. B. Moore have been awarded the contract for putting in 50,000 sq. ft. of cement walk at Franklin.

ESCANABA, MICH.—Contracts for street improvement aggregating $50,000 have been awarded by the Common Council to a local man, the lowest bidder. Portions of nine streets are to be rebuilt. Stone macadam, with concrete curbing, will be the material used.

DOWAGIAC, MICH.—Bids are asked by City Council until Aug. 12 for paving Front, Commercial and Beeson Sts. Work will require about 12,300 sq. yds. pavement, 2,176 lin. ft. sewer pipe, 2,213 lin. ft. cement curb, and 2,266 cu. yds. excavation. J. S. Haines, Cy. Surv.

BELLEVILLE, ILL.—Henry F. Merker, Cy. Engr., writes that contract was let July 27 to McCabe & Co., East St. Louis, Ill., for paving and sewering Jackson St. Work requires about 14,642 sq. yds. brick paving, 3,114 ft. Berea sandstone curb, and 2,966 ft. sewer, and contract price was $29,152. McCabe & Co. were also awarded contract for paving and sewering Church St., at $26,276, this work requiring 14,580 sq. yds. brick paving, 8,101 ft. Berea sandstone curb, and 325 ft. sewer. Contract for improvement Height was let to Hill & Gaynard, East St. Louis, Ill., for $31,580, this work requiring 14,695 sq. yds. brick paving, 3,146 ft. Berea sandstone curb, and 2,200 ft. sewer.

JERSEYVILLE, ILL.—Edwin B. Shafer, Cy. Engr., informs us that bids will be let about Aug. 25 for 8,000 yds. vitrified brick pavement.

PEORIA, ILL.—Board Local Improvements will pave Fourth Ave. with brick.

MANKATO, MINN.—Bids are asked by Board Public Works until Aug. 9 for grading, curbing and paving on Front, Jackson, Broad and Lincoln Sts. Plans and specifications on file in office of City Recorder.

ST. PAUL, MINN.—The following estimates for asphalt paving have been sent to the Board Public Works by City Engineer Rundlett: Fort St., $13,570; Franklin St., $12,080; College Ave., $22,710.

ST. PAUL, MINN.—City Engineer Rundlett has reported to the Board of Public Works as to the cost of paving Maria Ave. The improvement with asphalt will cost $16,856.

The street car company will have to pay $13,000 for paving with the same material their portion of the street.

WICHITA, KAN.—J. L. Leland, Cy. Clk., informs us that bids received July 18 for laying curbs on several streets were returned to contractors unopened and new bids will be readvertised for in the near future.

ST. JOSEPH, MO.—It is reported that bids are being received by Board Public Works for paving with brick 24th, 22d, 17th Sts., and five alleys.

ST. JOSEPH, MO.—The contracts for resurfacing Sixth, Eighth and Edmund Sts. were awarded by the Board Public Works to the Phoenix Brick & Construction Co.

KANSAS CITY, MO.—The paving of 39th St. was approved by Board of Education.

BALLARD, WASH.—An ordinance was passed by City Council to improve Shilshole Ave. by grading and planking.

SAN FRANCISCO, CAL.—The Board of Supervisors approved and adopted the plans submitted by City Engineer Woodward for the grading, macadamizing and curbing of the extension of 19th Ave. Est. cost, $5,000.

VALLEJO, CAL.—City Engineer Kaarsberg recommends to the Board of Public Works that Georgia St. be graded and paved with bitumen at an estimated cost of $2,389.

SOUTH PASADENA, CAL.—City Trustees rejected all bids for grading and curbing Adelaine Ave. and work will be readvertised.

FULLERTON, CAL.—E. K. Benchley, Cy. Trustee, has advanced the proposition that the City issue bonds for $20,000, the proceeds to be used in permanent street improvements, oiling, etc.

FRUITVALE, CAL.—Board of Trade will petition the Supervisors to open and widen Davis St. and to have a culvert put in at Adams creek.

ST. PETERSBURG.—The Council rejected all bids for paving Sixth Ave. with vitrified brick, and instructed the Clerk to advertise for others.

MORRISBURG, ONT.—Bids are asked by F. R. Chalmers, Clk., until Aug. 6 for building about 9,562 sq. ft. granolithic sidewalk. Plans and specifications may be seen at office of F. D. McNaughton, C. E., Cornwall, Ont.

MANUFACTURING PLANTS.

COLUMBUS, N. Y.—The Columbus Yarn & Cordage Co. has been incorporated with a capital of $30,000. Incorporators: B. N. Love and others. Columbus is also confident of the establishment of a large furniture factory in the near future.

GLENS FALLS, N. Y.—Finch, Pruyn & Co. write us that they are building a pulp and paper mill to manufacture news paper. At present the mill will be constructed for two paper machines and all other necessary equipment. Contract for rock excavation and concrete work, everything, in fact, in connection with the hydraulic development and building foundations has been let to Ward Bros., of Kennebunk, Me., at private figures. There will be no general contract except for the steel work, and for this specifications will probably be ready in six weeks. List of makers to whom will be sent these steel specifications has been selected.

PULASKI, N. Y.—The Pulaski Glove Co. will increase its capital stock from $13,500 to $25,000. A new power table will soon be placed in the factory.

PASSAIC, N. J.—The Forstmann & Huffman Co., Passaic, has been incorporated with a capital of $750,000. Incorporators: Julius Forstmann, Ferdinand Kuhn and Geo. Rohlig. The company is to manufacture textiles and yarns.

UNIONTOWN, PA.—The Standard Wood Fiber Co., whose plant at Hopwood was destroyed by fire, will rebuild in Uniontown.

GREENVILLE, PA.—A company, capitalized at $1,000,000, will erect a plant here for the manufacture of glass sanitary appliances, including bath tubs, tanks, acid vats, beer kegs, and burial caskets, under a process invented by Herr Seivert, of Dresden, Germany. The American rights to use this process have been secured by a company, of which the Brodhead Contracting Co. holds the controlling stock. The plant will probably be located on the Henlein farm, which contains a large supply of glass-making sand. The plant will employ 200 men at the outstart. The main building will cost $125,000, and it is estimated that it will cost $500,000 to equip the plant complete.

MORRISVILLE, PA.—Fire destroyed the storehouse of the Goodyear Vulcanite Rubber Co. works. Loss, $50,000.

WASHINGTON, PA.—It is reported that the Petroleum Iron Works Co. will erect new plant at Arden Station. Company has secured 17 acres of land.

PITTSBURG, PA.—The Riter-Conley Mfg. Co. have been awarded the contract for steel work on the new plant of the Pittsburg Valve Foundry & Construction Co.

PITTSBURG, PA.—It is reported that H. C. Frick Coke Co. will erect 1,000 new coke ovens in Fayette County in the near future. W. G. Wilkins Co., City, is Engr.

GREENBORO, N. C.—The Cone Export & Commission Co. has increased its capital from $1,000,000 to $1,600,000.

BELTON, S. C.—A charter has been granted to the Belton Power Co., which is to operate a cotton mill, furnish electricity and do kindred businesses at Belton. The capital is $100,000. J. B. Adger is Pres.

COLUMBUS, GA.—The Georgia Coffin Co. has been chartered with $15,000 capital to manufacture coffins, baskets and crates. Joel Bush and B. L. Clark are the incorporators.

BIRMINGHAM, ALA.—The North Birmingham Fire Brick & Roofing Co. has been chartered with a capital of $50,000. The officers are: J. E. Budwig, Pres., and H. W. Myers, Secy. and Treas. The company will begin the erection of a plant at North Birmingham immediately. High grade fire brick, and also roofing material, will be manufactured.

TUPELO, MISS.—The Tupelo Cotton Mills Co. will increase its capital stock $40,000 for the purpose of increasing the capacity of its plant.

GREENWOOD, MISS.—Board of Trade is in correspondence with the owners of a large furniture factory in Vermont with a view of bringing the industry to Greenwood.

KNOXVILLE, TENN.—W. J. Oliver, of Clarksville, and others are arranging to erect here a cold storage plant costing $300,000.

NASHVILLE, TENN.—B. J. Hodge, architect for new plant for the J. G. Hynds Shoe Mfg. Co., writes us that the contract for construction has been let, but not for machinery. Address, Southern Mill, Mine & Railway Supply Co., City. The plant will consist of a factory building and power house, 50 × 250 ft., two stories, mill construction. Est. cost of building, $25,000.

CHATTANOOGA, TENN.—The Richmond Spinning Co. will build a large knitting mill. Approximately $100,000 will be expended in buildings and equipment for the new enterprise.

LOUISVILLE, KY.—Hubbard Bros. have purchased property at a cost of $5,300 and will erect a new cooperage factory at a cost of $10,000.

UNIONTOWN, KY.—A grain elevator will be erected here by Harris, Pfeffer & Rothman.

ITASCA, TEX.—The Farmers' Gin Co. has been chartered with a capital stock of $5,000. Purpose to buy, build, own and operate cotton gins. Incorporators: E. E. Griffin, J. W. Harper and James Lawless.

DETROIT, TEX.—The Detroit Oil & Cotton Co. has increased its capital stock from $50,000 to $65,000.

CORNWALL, ONT.—The Town Council has formed an agreement with the Canadian Colored Cotton Mills Co., Ltd., by which the company is to open a third mill there on the property recently purchased from the Cornwall Mfg. Co.

NEW YORK, N. Y.—Schwartz & Gross, 35 West 21st St., have awarded to Murphy Bros., of 489 Fifth Ave., the general contract to build a 3-sty and basement fireproof factory and warehouse, 100 × 100 ft., at Spring and Sullivan Sts., for the New York Pie Baking Co. This contract does not include steam-heating apparatus, plumbing, elevators, ovens and electric lighting plant.

SYRACUSE, N. Y.—The plans of the H. H. Franklin Mfg. Co. for a large addition to its plant in South Geddes St. were announced. It will be 66 × 160 ft., five stories, and with equipment will cost $75,000. R. J. Reidpath, of Buffalo, is Arch.

PHILADELPHIA, PA.—A brick factory building, eight stories, 80 × 100 ft., will be built by Thomas M. Seeds, Jr., at 1210-16 Race St. Cost, $135,000.

WILLIAMSPORT, PA.—The Reading Ry. Co. has invited bids for construction of a repair shop at Williamsport. The company has issued its specifications for tool machinery, amounting to about $100,000. Wm. H..., of Philadelphia, is Ch. Engr.

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HANCOCK, MD.—Robt. F. Shafer and W. T. H..., of Hagerstown, Md., are the promoters of a sh... tory to be established at Hancock.

BALTIMORE, MD.—The International Syndicate..., 17-19 Little Sharp St., will erect a manufacturing ... at 213-17 North St. Brick, six stories, 50 × 100 ft., ... crete foundations, steam heating system, electric ..., boilers, engine, etc.

CHARLOTTE, N. C.—A large plant factory will be erected here by the Finaldson Mfg. Co. E. V. F... is Mgr.

MONROE, N. C.—The Crow Hosiery Mill Co. has incorporated with $25,000 cap. stock and will build ... story, 40 × 180 ft., brick factory to produce 200 do... hosiery daily. H. E. Wilson, of Elizabeth City, w... manager.

GREENSBORO, N. C.—The Cone Export & Comm... Co., it is stated by the "Pink Sheet Daily Bulle..." will increase its capital from $1,000,000 to $1,600,000.

ROPER, N. C.—The Blount Milling Co. will add c... oil machinery in the near future.

PROSPERITY, S. C.—The Prosperity Cotton Oil Co. will increase its capital from $20,000 to $30,000.

DILLON, S. C.—Bids will be received for erection of ... mill houses. Address W. M. Hamer.

DILLON, S. C.—The Maple Cotton Mills Co. will do... the capacity of its mills by the addition of 8,500 spindles. A wing 300 ft. long will be added to the north end of main building. The machinery will be driven by the same power.

COLUMBUS, GA.—J. F. Hanson, of Macon, Ga., is negotiating for a tract of land in Columbus, to be used as site for a cotton mill to be erected by the Bibb Mfg. Co., of Macon, of which Mr. Hanson is Pres.

OMEGA, FLA.—The planing mill and dry kiln owned by Squire & Son was destroyed by fire. Loss, $100,000.

FAIRFIELD, FLA.—Armour & Co., of Chicago, will erect a fertilizer factory here at a cost of $1,500,000. The factory will manufacture 25,000 tons of phosphate a year.

JACKSONVILLE, FLA.—The Mellor Mfg. Co. will rebuild its camphor factory at once.

TRENTON, FLA.—Tyler & Son, of Montbrook, contemplate erecting a saw mill near this place.

ANNISTON, ALA.—The Southern Electric & Mfg. Co., capital $100,000, will establish a plant here to manufacture electrical supplies, fixtures, fans, etc. A site has been selected and the factory will be erected at once. Frank G. Lake is Pres.

ALBERTVILLE, ALA.—The Albertville Cotton Oil Co. will erect a cotton gin here.

WINNSBORO, LA.—The Winnsboro Preserving & Packing Co., of Liverpool, N. Y., will erect a canning factory here.

NASHVILLE, TENN.—F. E. Bowers, City, is organizing a company to erect a brass foundry and machine shop at West Nashville. The plant will manufacture all kinds of brass goods.

NASHVILLE, TENN.—G. A. Pickup, of Brooklyn, N. Y., will probably locate a manufacturing plant in this city. The secretary of the Retail Merchants' Association can inform.

CHATTANOOGA, TENN.—J. A. Caldwell is taking steps to organize a company for the purpose of erecting a $100,000 cotton mill at Chattanooga. The proposed plant is to be built entirely with local capital.

PARIS, KY.—The Paris Ice Co. has increased its capital from $25,000 to $50,000.

OWENSBORO, KY.—The Valmon Buggy Body Co. will erect an addition to its plant.

MUNCIE, IND.—Ball Bros. will expend about $60,000 for improving their fruit jar manufacturing factory.

JOLIET, ILL.—Michael F. Kahn, of Kahn & Zipt, is reported interested in the Joliet Brewing Co., which has been organized with a capital stock of $125,000. A new plant is to be constructed.

CHICAGO, ILL.—The Addresograph Co. has purchased ground at Van Buren and Peoria Sts., and will soon commence the erection of a factory building. The plans have been drawn by L. C. Hallaberg and contemplate an 8-story building, 89 × 125 ft. Est. cost, $200,000.

CHICAGO, ILL.—Plans have been drawn by J. P. Hettinger, 100 Washington St., for a factory to be erected at 163-65 Ward St. Brick and mill construction, 38 × 100 ft., and cost $20,000.

SHEBOYGAN, WIS.—The Sheboygan Cement Building Block Co. has been organized for the purpose of erecting a plant for the manufacture of cement building blocks.

ST. JOSEPH, MO.—A building permit has been granted for building a brick addition two stories high and 45 × 90 ft. to the Talge Lounge Co. on Ninth St. Cost, $3,000.

ALTUS, ARK.—The Altus Gin Mfg. & Improvement Co., capital $10,000, has been chartered here. H. L. Hembree is Pres. An extensive ginning plant will be erected.

EUDORA, ARK.—M. J. Craig, of Little Rock, will organize a $10,000 company to establish brick works here.

TEXARKANA, ARK.—The Porter-Wadley Lumber Co., capital $100,000, has been chartered to deal in timber lands, operate saw mills, planing mills, etc. The incorporators are: A. B. Bank, J. K. Wadley and E. E. Porter.

ALTUS, ARK.—H. L. Hembree, J. L. Jacobs and others contemplate erecting an ice factory here.

WEATHERFORD, TEX.—The Weatherford Cotton Mills Co. will probably erect a knitting mill in the near future.

CELINA, TEX.—The Celina Mill & Elevator Co. has increased its capital from $30,000 to $50,000.

ENID, OKLA.—The Enid Creamery Co. will erect an ice factory.

HOLLIS, OKLA.—L. H. Cope, of Quanah, Tex., will build a cotton gin here.

POND CREEK, OKLA.—The Pond Creek Mill & Elevator Co. will build a 100,000-bu. grain elevator.

WAURIKA, OKLA.—The Waurika Elevator Co. will erect a new grain elevator.

CHANDLER, OKLA.—A $6,000 cotton gin will be erected here by the Farmers' & Merchants' Gin Co.

CRESCENT, OKLA.—Houghton & Douglas will erect a $15,000 cotton gin.

SEATTLE, WASH.—The Pacific Tube Works has been organized and will erect tube works in Seattle. Cost, $[illegible]00,000.

DAVIS, IND. T.—A cotton gin will be erected here by the Davis Gin Co. Cost, $6,000.

GILROY, CAL.—W. B. Rankin of Los Gatos, representing the California Wine Assn., has completed arrangements for the erection of a big winery at Gilroy, which will cost about $35,000.

ST. JOHNS, QUE.—James Stewart & Co., of Pittsburg, Pa., were awarded the contract for construction of a new plant for the Singer Mfg. Co., 149 Broadway, New York, at a cost of $1,000,000. The new works will comprise 22 separate fireproof brick buildings erected on 20 acres of ground reached by the Grand Trunk, Canadian Pacific, Central Vermont and Delaware & Hudson railways. The cabinet building will be 650 ft. long, the machinery building 850 ft. long, six stories high and subdivided into separate fireproof structures of 100 ft. length each. All of the buildings will be framed with steel and will cover the complete manufacture of sewing machines.

MISCELLANEOUS CONTRACTS.

DREDGING.—Jackson, Mich.—City will spend $10,000 for dredging in Grand River.

PIER.—Atlantic City, N. J.—It is stated that a new steel pier is to be built off Georgia Ave., this fall and winter.

DOCK.—Burlington, Vt.—Council has voted to bond for $50,000 for building municipal dock on shores of Lake Champlain.

LEVEE.—Sacramento, Cal.—Bids are asked until Aug. 8 for construction of section of Y St. levee. M. J. Desmond, Cy. Clk.

DREDGING.—New York, N. Y.—Aldermen have appropriated $50,000 for dredging Flushing Bay and Flushing Creek, Flushing, L. I.

DREDGING.—Portland, Me.—Eastern Dredging Co., Portland, Me., at $92,450, was only bidder, Aug. 1, for dredging in Kennebec River.

DREDGING.—Chicago, Ill.—Fitzsimmons & Connell Co., Chicago, was low bidder July 26 at $38,250 for about 170,000 cu. yds. dredging in the Calumet River.

LEVEE.—East St. Louis, Ill.—East St. Louis Levee Construction Co. is stated to have made proposition to council to build a levee about the city for $160,000.

LEVEES.—Pine Bluff, Ark.—It is stated that committee, Jesse R. Core, member, has been appointed to raise money for building levee to cost about $120,000.

DREDGING AND FILLING.—Washington, D. C.—Henry Steers, 17 Battery Pl., New York, was low bidder July 30 for dredging and filling at League Island Navy Yard.

STEEL TOWERS.—San Diego, Cal.—Contract for steel towers for sewer system have been let to Riverside Foundry & Machine Works, for $6,682. Bids were opened July 14.

ATHLETIC GROUNDS.—San Francisco, Cal.—Nearly all of the necessary $50,000 has been subscribed for the construction of the proposed Golden Gate Park athletic grounds.

RIPRAP STONE.—Boston, Mass.—Smith & Robinson, 17 State St., New York, were low bidders July 25 for about 3,156 tons riprap stone in dike on Long Beach, Plymouth Harbor, Mass.

SUBWAY.—Herkimer, N. Y.—State Railroad Commissioners have approved application for a subway at Main St. crossing of the New York Central R. R. Wm. Horrocks is Village Pres.

CULVERT.—Cleveland, O.—Ordinance has been approved by the Mayor authorizing Board of Public Service to expend $15,000 for building a culvert under the Lake Shore arch in Gordon Park.

MANILLA ROPE AND PINE LUMBER.—New York, N. Y.—Bids are asked by Maurice Featherson, Comr. Docks, Pier A, Battery Pl., until Aug. 16 for furnishing manilla rope and sawed new yellow pine.

WINDOW AND DOOR SCREENS.—Prescott, Ariz.—Bids are asked until Sept. 10 for furnishing and placing window and door screens. Capt. Chas. C. Walcutt, Jr., Q. M., U. S. A. (Advertised, Engineering News.)

TUNNEL.—New York, N. Y.—It is rumored that the Delaware, Lackawanna & Western R. R. Co. is considering reaching New York city by a tunnel under the Hudson River, paralleling the Pennsylvania's bore.

DAM.—Harrisonburg, Va.—Bids are asked until Aug. 11 for constructing a 15-ft. dam, with foundations, race-ways and wheel-pits on the Shenandoah River. N. Wilson Davis, Engr. T. O. Jones, Chn. Electric Light Com.

RIVER CHANNEL STRAIGHTENING.—Kilbourne, Ill.—It is stated that channel of Sangamon River in Crane Creek and Kilbourne will be shortened from 10 to 24 miles. Wallace Coddington, Plover, Wis., is interested.

TELEPHONE EXTENSIONS.—Cleveland, O.—Federal Telephone Co. is to borrow $450,000, all of which will be expended through Ohio and adjoining states, in extensions of the long distance lines of the United States Telephone Co.

DRAINAGE DITCH.—Sidney, Ia.—A. M. Munn, C. E., Nebraska City, Neb., has completed preliminary survey for a drainage ditch for western part of Fremont County. Ditch is to start near McPaul, Ia., and will be 5½ miles long.

RIVER IMPROVEMENT, WHARVES.—Cleveland, O.—Ordinance has been approved by Council to issue $150,000 of bonds for improving Cuyahoga River and constructing wharves and landings thereon. Peter Witt is Cy. Clk.

DAM.—Boston, Mass.—The Charles River Basin Commission will probably call for bids not later than Aug. 15 or Sept. 1 for the entire structure of the dam and certain preliminary work in connection with the lateral conduits.

REPAIRING ICE BREAKER.—Peru, Ill.—Bids are asked until Aug. 15 for building protection in midstream and for repairs and alterations upon the ice breakers. W. H. Conard, Chn. Com. (Advertised, Engineering News.)

LEVEE RAISING.—Isleton, Cal.—Trustees of Andrus Island, Brannan Island and Reclamation District 556 have voted to raise all levees around the two first mentioned places 4 ft. above high water mark. P. H. Gardiner, Isleton, is interested.

ELEVATOR.—Nashville, Tenn.—Capital Grain Co., recently incorporated with $70,000 capital has purchased site in West Nashville, and will, it is stated, proceed to at once erect a grain elevator and warehouse with capacity of 200,000 bushels.

DAM.—Waco, Tex.—City has let contract for construction of wooden frame dam across Brazos River to G. C. Patton, Houston, Tex., for $14,000. The dam will be constructed of round and sheet piles, plank, heavy boulder riprap and earth filling.

TUNNEL TERMINAL.—Chicago, Ill.—Illinois Tunnel Co., Albert G. Wheeler, Pres., is stated to have purchased site for terminal of its underground system of electric railways, with intention of spending $1,500,000 immediately in its improvement.

DAM, ETC.—Roswell, N. Mex.—Specifications are on file at office of Engineering News, 220 Broadway, New York, for construction of earthen dam, embankment, etc., for Hondo Irrigation project. Bids are asked until Sept. 6, as advertised in Engineering News.

CANAL, BRIDGES, ETC.—Port Huron, Mich.—Specifications, bidding sheet and contract for completion of canal from Lake Huron to Black River are on file at office of Engineering News, 220 Broadway, New York. Bids are asked until Aug. 15, as advertised in Engineering News.

CONDUIT MATERIAL.—Baltimore, Md.—Specifications are on file at office of Engineering News, 220 Broadway, New York, for furnishing Electrical Commission of Baltimore with 1,000,000 duct ft. of conduit material. Bids are asked until Aug. 10 as advertised in Engineering News.

DRAINAGE DITCH.—Sterling, Ill.—Bids are asked by Drainage Commissioners of Union Drainage District No. 1, at office of F. E. Andrews, Att'y., until Aug. 12 for cleaning out and deepening main drainage ditch requiring removal of about 78,000 cu. yds. earth, and four lateral ditches, requiring removal of 17,175 cu. yds. earth.

DOCK WALL.—Grand Rapids, Mich.—L. W. Anderson, Cy. Engr., has presented estimates to Board Public Improvements for protection of the West Side in time of floods. Construction of concrete dock wall from Leonard St. to North Webster St., to cost $54,846 is recommended.

BREAKWATER.—Toronto, Ont.—City Engineer Rust has proposed two plans for a permanent breakwater from Sunnyside to Humber. Either a cement concrete breakwater, costing about $80,000, should be built some 200 or 300 ft. out from the present beach, or else groynes jutting out into the lake should be built at intervals. These latter would cost about $50,000.

REDUCTION PLANT.—Butler, Nev.—Alex McCone of the firm of Harron, Richard & McCone, is stated to have a contract with the Combination Co. at Goldfield to install a reduction plant on their property. The plant will consist of two 5-stamp batteries, amalgamating plates, grinding pans, concentrators and cyanide tanks of sufficient size to handle the tailings.

IRON, BOILERS, PIPE FITTINGS, ETC.—New York, N. Y.—Bids are asked by Maurice Featherson, Comr. Docks, Pier A, Battery Pl., until Aug. 11 for furnishing miscellaneous supplies, among which are stated to be wrought iron, cast iron, steel, etc.; boilers, engines, pumps, etc.; pipes, fittings, valves, sheet metal, etc.; lumber, etc., and machinists' supplies.

TELEPHONE LINES.—Oakland, Cal.—The Automatic Direct Line Telephone Co., of San Francisco, has reorganized under the name of the Direct Line Telephone Co., and has raised the capital stock from $250,000 to $1,000,000. The company intends to extend its field so as to connect and cover all principal cities and towns on the coast. Wm. Pringle, Oakland, is interested.

TUNNEL, CANALS, ETC.—Montrose, Colo.—U. S. Reclamation Service is asking bids for the construction of the Gunnison Tunnel and approaches, and for the construction of about 15 miles of main distributing canals. Bids for the tunnel and approaches are to be opened Oct. 5 and bids for the canals will be opened Sept. 15, as stated in our proposal advertising columns.

DRAINAGE DITCH.—Brodhead, Wis.—Bids are asked by Supervisors town of Avon or by Burr Sprague, Brodhead, until Aug. 17 for construction of drainage ditch in Avon, to be about 5½ miles long, 16, 20, 24, and 28 ft. wide, and 5 or 6 ft. deep. C. C. Jacobs, Amboy, Ill., is Engr. Bidding sheet and specifications for above work on file at office of Engineering News, 220 Broadway, New York.

PORT IMPROVEMENTS.—New Orleans, La.—Engineers of New Orleans Board of Port Commissioners are now at work drawing plans for improvements of the harbor facilities. These are to include new wharves, steel sheds, freight elevators, granite roadways, etc., and will cost about $2,000,000. Plans for the improvements will probably be ready for submission to bidders by the first of next year.

DRAINAGE DITCH.—Elgin, Ill.—H. D. Barnes, Mgr. Elgin Packing Co., writes us that their drainage proposition is still in embryo, as the petition is not entirely finished. This, however, will be ready to file with the county court within a short time. It is hoped to have the work started by early fall if there is no unlooked for delay. The ditch will be about nine miles long and will drain about 3,000 acres.

NAVAL COLLIERS.—Washington, D. C.—The Navy Department has decided upon the plans for the two new naval colliers. Nothing, however, can be done toward building them until Congress provides the facilities at two navy yards for doing the work. They will be 450 ft. in length, of 60 ft. beam, and 26 ft. draft, in which condition the displacement will be 12,500 tons. The colliers will carry from 7,000 to 7,500 tons.

Information concerning contracts to be let or supplies to be furnished, and corrections of errors and omissions in published items, are invited. Full details regarding the equipment, tools, etc., required for the proposed improvements are specially desired.

LEVEE.—Des Moines, Ia.—Council has approved plans and has passed resolution of necessity ordering construction of levees and deepening of Des Moines and Racoon Rivers. Work includes straightening channel of Des Moines River; changing and deepening channel of Raccoon River; building levees along east bank of Des Moines River; raising and completing grade of river drive; est. cost is $310,000.

SLUICE GATES ETC.—New York, N. Y.—Bids are asked by the Aqueduct Commissioners, Wm. H. Ten Eyck, Pres., 280 Broadway, until Aug. 16 for furnishing, erecting, etc., 16 large sluice gates, three 48-in. diameter balance valves, eight 12-in. diameter balance valves, three 48-in. stop cocks, a number of 12-in. and 6-in. stop cocks, 900 ft. wrought-iron ladder, 25 tons of wrought-iron or steel floor beams, 85 tons cast-iron specials, 185 tons standard water pipe, 3,000 sq. ft. illuminated vault light floor plates, 5 tons wrought-iron plates on bars for doors, etc., etc.

DAM.—Sacramento, Cal.—Bids are asked by Commissioners Public Works until Aug. 15 for constructing an earth dam between two parallel rows of sheet piling across Finnigan Slough. An approximate estimate of material required is 8,000 cu. yds. earth, 40 standard piles 20 ft. long, 2,250 ft. of ⅝-in. flexible wire cable, 21,000 ft. B. M. of sheet piling and walling, and 400 lbs. of nails. Plans and specifications can be had of W. P. Mathews, Secy., Room 58, Capitol Bldg.

LEVEES, SEWERS, PUMPING STATION.—Memphis, Tenn.—Bids are asked by City Secretary until Sept. 1 for labor and material for system of levees, storm water sewers and pumping station. Work consists of placing about 75,000 yds. earth fill in levee; construction of 7,500 ft. 18 to 36-in. vitrified pipe storm sewer, and 5,000 ft. 16 to 48-in., cast-iron storm sewer; construction of steel reinforced concrete pumping station, and furnishing and erecting of equipment. J. A. Omberg, Jr., Cy. Engr.; W. B. Armour, Cy. Secy. (Advertised, Engineering News.)

COAL POCKET, PUMP, GENERATOR, ETC.—East Orange, N. J.—Bids are asked by City Council until Aug. 15 for constructing concrete coal pocket at pumping station at White Oak Ridge. Bids are also asked for furnishing and erecting 5,000,000-gallon centrifugal pump, 45-HP. direct-connected steam engine, 7-KW. lighting generator direct connected to steam turbine, 80 incandescent lights, with fixtures, switchboard, wiring, etc. C. C. Vermeule, Engr., 203 Broadway, New York. Stephen Long, Cy. Clk. (Advertised, Engineering News.)

DREDGING.—Perth Amboy, N. J.—Joseph G. Falcon, Submarine Diver, writes us that bids were received July 5 for dredging in Raritan River from M. H. Flannery, 120 Liberty St., New York, and Atlantic Dredging Co., 15 Whitehall St., New York. The work includes the excavation and towing to sea of about 10,000 yds. soft clay. The trench is to be 2,000 ft. long and 6 ft. deep. Dredging was to commence Aug. 1, also the laying of 24-in. cast-iron pipe, 1¼-in. thick. The pipe is to rest on Georgia pine footings, 6 ft. long by 28-ins. wide, set for each 12 ft. length of pipe. In the pipe line 52 Ball joints of the Falcon pattern at Evanston, Ill., will be used.

OCEAN PARK.—New York, N. Y.—Agreement is stated to have been reached between this city and the Manhattan Beach Hotel & Land Co., Ltd., Austin Corbin, Vice-Pres., which involves the development and beautification of the entire strip of land from Emmons Ave., Sheepshead, to Pelican Point, 2¼ miles. The hotel corporation agrees to build a bulkhead along the south shore of Sheepshead Bay, from Emmons Ave. to Pelican Point and running 100 ft. inshore from the bulkhead, and to build a macadam road and parkway 12,000 ft. long. At the same time it will fill in the present inlet, at about the middle of this distance, and will reopen the old inlet to the bay at Pelican Point. At the latter point it will lay out and develop an eleven-acre park to be known as Corbin Park. The road, parkway, and bulkhead are to be finished inside of five years at a cost of $500,000.

PUBLIC IMPROVEMENTS.—Chicago, Ill.—In view of the contemplated issue of bonds for $5,000,000 for public improvements, the City Controller, Mr. L. E. McGann, has submitted a list of improvements needed, but this will have to be cut down to come within the amount available. The cost of the desired improvements and the departments among which they are divided follow: Police department, $20,000; fire department, $277,700; health department, $88,750; engineering department, $2,584,143; lowering tunnels, $2,000,000; department of public works, $150,000; board of local improvements, $33,500; electrical department, $400,000; public benefits, $640,000. The money asked for the police and fire departments is for new stations; for the health department, six public baths and an antitoxin plant are wanted. The money asked for the engineering department is for new bridges, and the department of electricity wants to extend its lighting plant.

MINING

SMELTER.—Martinez, Cal.—Mountain Copper Co., Keswick, Cal., according to reports is to build a smelter at Bull's Head Point.

STAMP MILL.—Quincy, Cal.—It is stated here that the owners of the Maloy mine on Bucks Creek, intend to erect a 10-stamp mill on the property.

STAMP MILL.—Stockton, Cal.—Stockton "Independent" states that the Voinich Mining Co. intends to erect a 30-stamp mill on the Voinich mine at Bear Mountain.

SAMPLING PLANT.—Butler, Nev.—Local reports state that the American Smelting Co. contemplates the erection of a sampling plant on the road between Tonopah and Reno.

SMELTER.—Murray, Utah.—Samuel Newhouse, of Salt Lake City, is said to be planning to build a large smelting plant near the Highland Bay smelter, about 2 miles west of the new Murray plant.

MANGANESE MINING.—San Jose, Cal.—The American Manganese Co. has floated $500,000 of bonds, the money to be used in putting in machinery and developing the manganese and cinnabar mines lying east of Mount Hamilton.

MINING DEVELOPMENT.—Eureka, Cal.—Local reports state that Bert Lucas, Fortuna, Cal., is endeavoring to interest capital in the development of mines in the Willow Creek section. A 50-stamp mill will probably be erected.

READERS' WANTS

This Department contains special requests, and detailed items, from persons in the market for supplies, and from others asking for the names and addresses of firms manufacturing certain tools, machinery and supplies required for work in which they are interested. ENGINEERING NEWS will be glad to furnish at once, free of cost, names and addresses of firms making the machinery or material desired, after which the item will appear in this column, UNLESS OTHERWISE REQUESTED, which request will be honored absolutely. The information in all cases will be sent to our advertisers handling the material wanted, or to other firms should it be out of the line of our advertisers. Every day we are receiving such requests with the understanding that it must not appear in the paper.

SURVEYING INSTRUMENTS.—Federated Malay States, Asia.—W. J. Weatherston, Asst. Engr. Malay States Railway, Tampin, F. M. S., writes us that he wants price-lists from firms making surveyor's instruments.

TROLLEY CROSS ARMS AND FEED WIRE.—Stroudsburg, Pa.—E. P. Arbogast, Contractor, of Stroudsburg, writes us that he wants names and addresses of firms making cross arms and feed wire for trolley roads.

RATTAN IMPORTERS.—New York, N. Y.—The Escoba Mfg. & Supply Co., 147 Cedar St., New York, writes us that it wants names of Chinese bamboo and rattan importers.

CATCH-BASINS (5), CURBING (2,500 ft.), GAS ENGINES, VITRIFIED PAVING BLOCKS.—Minerva, O.—Rees T. Davis, Cy. Clk., writes us that he wants catalogues from manufacturers of the above-mentioned material.

BRICK, CATCH-BASINS, ROAD ROLLER, PAVING BRICK, ROCK CRUSHER, SEWER PIPE, STREET SWEEPING MACHINES, SURVEYING INSTRUMENTS, TRACTION ENGINES.—Salesbury, N. C.—C. M. Miller, Cy. Engr., writes us that he wants catalogues of makers of the above-mentioned materials.

HAND PUMPS, EXCAVATING MACHINE AND STONE CRUSHER.—San Francisco, Cal.—The Shaw Trade Library (Inc.), Crossley Bldg., writes us that it wishes to know the names and addresses of firms making hand pumps for pumping water from ditches and trenches, making machines for excavating heavy clay, to be operated by steam with wood as fuel, and of firms making stone crusher of the gyrating type. The stone to be crushed is to be used for macadamizing roads. This crusher is for the Orient.

GAS PRODUCER PLANT, PUMP AND WATER-WHEEL.—Mexico.—Lawrence Elder, care of M. Dahlgren, Apartado 124, Durango City, Mex., writes us that he is in the market for a gas producer plant of 40 HP., and engine, fuel charcoal; pump of 2,500 gals., to lift 30 ft., and a water-wheel, 50 HP.; fall, 22 ft.

TRANSMISSION MACHINERY.—Gloversville, N. Y.—The Daniel Hays Co., of this city, writes us that it wishes to be placed in touch with manufacturers of power transmission of the kind which it needs in its factory. The power from the engine room into the factory must be transmitted from a shaft running from the engine to a shaft running at right angles through the factory. Up to a month ago the company did this by means of cog wheels, but the noise was so great that it was decided to try the experiment of putting in right angle pulleys. The mule stands have to be placed within about 6 ft. of main factory shaft, and this does not seem to afford a long enough drive. As a result the belt is continually running off, and is altogether unsatisfactory. It has been suggested that a rope drive would be just the thing. The company wishes the addresses of any manufacturers who could advise just the best thing to do under the conditions. A sketch regarding the work may be seen at the office of Engineering News, 220 Broadway, New York.

CONTRACT PRICES.

[Where (*) precedes items under Contract Prices the work was advertised in Engineering News.]

VITRIFIED BRICKS.—Charleston, S. C.—Board of Public Works awarded Southern Clay Manufacturing Co. of Chattanooga, Tenn., the contract for furnishing about 1,500,000 vitrified brick at $21.50 per thousand brick f. o. b. Charleston.

TILE.—Ithaca, N. Y.—Henry L. Stewart, Supt. Sewers, writes us that contract for 6-in. tile sewer was awarded to C. R. Lewis, Ilion, N. Y., at the following bid: 6-in. tile sewer 29 cts. a foot; Y's, 35 cts.; manholes, $35; rock excavation, $2.50 a cu. yd; removing 6-in. cast-iron sewer from Meadow and Clinton to Plain St., 48 cts. per lin. ft.

*STREET LIGHTING.—Pontiac, Mich.—Following bids were received July 8 for lighting city by about 136 enclosed arc lamps of 2,000 c. p. each; Wm. J. B. Riley, Cy. Clk.: Jules G. Hoffman, 421 Hammond Bldg., Detroit, Mich., $57.30 per light per year, on ten-year contract, schedule of every night to 1 o'clock; Griggs & Mastin, American Savings Bank Bldg., Pontiac, Mich., $63.60 per lamp per year, on same schedule as first bidder; Welsbach Street Lighting Co., Chicago, Ill., $24 per lamp per year, on same schedule as first two bidders; Pontiac Standard Lighting Co., 827 Majestic Bldg., Detroit, Mich., $58.80 per light per year, on a ten-year contract, every dark night, schedule to 1.30 p. m., and lights on one night at beginning and one night at end of each moonlight period.

*EXCAVATION, ETC.—Columbus, O.—Following bids were received July 26 for building substructure of a bridge over Scioto River; contract let to Cooke & Grant; Julian Griggs, Ch. Engr., Dept. Pub. Service; (1) Cooke & Grant, Columbus, O.; (2) D. E. Sullivan & Son, Columbus, O.; (3) The Hoover & Kimear Co., Columbus, O.; (4) Williams Bros. & Morse, Cleveland, O.; (5) Westwater & Casey, Columbus, O.; (6) Dudley W Curtis, Portsmouth, O.; (7) C. T. McCracken & Co., Cleveland, O.; (8) The Savage Construction Co., Chicago:

Bidders	Dry Earth Excavation 1,200 c.yds.	Wet Earth Excavation 1,000 c.yds.	Piling 5,000 lin. ft.	Concrete 1,700 c.yds.	Total.
(1)	$0.50	$1.50	$0.60	$6.50	$16,150
(2)	.90	.90	.75	6.30	16,440
(3)	.50	1.50	.40	7.35	16,595
(4)	.60	1.50	.50	7.25	17,045
(5)	.50	1.00	.60	8.00	18,200
(6)	.50	2.00	.60	7.50	18,350
(7)	.75	1.50	.60	8.50	19,850
(8)	.75	2.50	.45	8.50	20,100

LAYING WATER MAINS.—Winona, Minn.—Following bids were received July 18 for laying water mains; G. P. Coleman, Cy. Engr.; (1) 14-in. pipe, per ft.; (2) 6-in. pipe, per ft.; (3) manholes, each:

Bidders.	(1)	(2)	(3)
John Degnan, Winona	$0.31	$0.23	$28.00
W. I. Gray & Co., Minneapolis	.42	.23½	32.00
Des Moines Bridge & Iron Co., Des Moines, Ia.	.45	.25	35.00
Geo. Coones & Co., Winona	.35	.21	35.00
Tom Smith, Winona	.32	.219	40.00

DRIVING PILES.—Sterling, Ill.—Contract for driving 70 piles, 12 to 15 ft. long, was let to Dennis O'Hare at 60 cts. per lin. ft.

WATER METERS.—Dayton, O.—Following bids were received by Board Public Service, July 19, for furnishing 800 ⅝-in. water meters: Henry R. Worthington, $6; Pittsburg Meter Co., $8.40; Thomson Meter Co., $6; Hersey Manufacturing Co., $8; Buffalo Meter Co., $6; M. J. Gibbons, $6.

*DREDGING.—Chicago, Ill.—Following bids were received July 26 for about 170,000 cu. yds. dredging in Calumet River: Fitzsimmons & Connel Co., Chicago, Ill., 22.5 cts.; Chicago & Great Lakes Dredge & Dock Co., Chicago, Ill., 24.2 cts.; Samuel O. Dixon, Milwaukee, Wis., 26 cts.

*RIPRAP STONE.—Boston, Mass.—Following bids per ton for about 3,150 tons of riprap stone in dike on Long Beach, Plymouth Harbor, Mass., were received by Lt.-Col. W. S. Stanton, U. S. Engrs., July 25: Smith & Robinson, 17 State St., New York, $2.09; Jos. J. Callahan, Atlantic, Mass., $2.84; Quincy Granite Quarries Co., Quincy, Mass., $2.65; Ernest L. Sampson, Plymouth, Mass., $2.97.

TILE SEWER.—Newark, O.—Following bids per lin. ft. were received by Board Public Service July 21 for constructing 15-in. tile sewer, 2,470 ft. long in Pine St.: Fisher & Knight, Columbus, O., $1.50; W. S. Pace, Newcomerstown, O., $0.77.

BRIDGE SUPERSTRUCTURE.—Chicago, Ill.—Following bids were received July 13 by Trustees Sanitary District for constructing superstructure of a bridge over the Chicago River at 22d St.; (1) Jackson & Corbett Bridge & Steel Works, Chicago; (2) McClintick-Marshall Construction Co., Chicago; (3) Chicago Bridge & Iron Works, Chicago; (4) Roemheld & Gallery, Chicago; (5) Riter-Conley Mfg. Co., Pittsburg; (6) American Bridge Co., Chicago; (7) C. L. Strobel, Chicago:

BIDS RECEIVED AT CHICAGO, ILL., JULY 13, 1904, FOR CONSTRUCTING THE SUPERSTRUCTURE OF A BRIDGE OVER THE CHICAGO RIVER.

Items.	Quantities.	(1)	(2)	(3)	(4)	(5)	(6)	(7)
Superstructure	Lump bid	$169,923.00	$176,060.00	$178,000.00	$183,398.00	$187,381.00	$189,600.00	$194,700.00
Extra medium or soft steel	15,000 lbs.	.05	.04¾	.04	.05	.05	.04¾	.06
Extra iron castings	1,000 lbs.	.05	.04¾	.04	.04	.05	.04	.07
Extra steel castings	5,000 lbs.	.07	.12	.04	.09	.10	.10	.11
Extra phosphor-bronze		.70	.40	.29	.50	.50	.50	.50
Extra counterw't block castings	20,000 lbs.	.02	.01⅛	.02½	.01¾	.02	.02½	.02
Extra yellow pine, oak or maple, not creosoted etc	15,000 ft. B.M.	50.00	50.00	30.00	40.00	50.00	45.00	50.00
Extra yellow pine, creosoted in place, etc	3,000 ft. B.M.	50.00	65.00	35.00	50.00	65.00	60.00	60.00
Portland cement concrete, etc	50 cu. yds.	7.50	9.00	7.00	7.00	9.00	10.00	9.00
Totals		$172,748.00	$179,115.00	$180,245.00	$186,088.00	$190,476.00	$192,707.50	$198,000.00

*SANITARY SEWERS.—Dayton, O.—Following bids were received July 22 for constructing sanitary sewers in Districts 6 and 7; contract awarded to M. O. Herron & Co.; F. M. Turner, Cy. Civ. Engr.; (1) M. O. Herron & Co., Pittsburg, Pa.; (2) Ajax Cont. Co., Pittsburg, Pa.; (3) Keeling & Ridge Co., Pittsburg, Pa.; (4) F. B. Sweeten & Son, Camden, N. J.; (5) C. McCracken & Co., Cleveland, O.; (6) Paul & Kershner, Dayton, O.; (7) Lee & Casey, Pittsburg, Pa.; (8) Kirchner Const. Co., Cincinnati, O.; (9) W. C. Gayer, Cleveland, O.; (10) James Westwater, Columbus, O.; (11) S. W. Parshall, Akron, O.; (12) D. E. Sullivan & Son, Columbus, O.:

BIDS RECEIVED AT DAYTON, O., JULY 22, 1904, FOR CONSTRUCTING SANITARY SEWERS IN DISTRICTS 6 AND 7.

Items.	Quantites.	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)
Sewer pipe furnished and laid, per lin. ft.													
2 feet in length, 8-in.	94,420 lin ft.	$0.18	$0.20	$0.175	$0.15	$0.20	$0.22	$0.20	$0.27	$0.22	$0.22	$0.16	$0.19
" " 10-in.	6,310 "	.23	.28	.22	.23	.275	.32	.30	.38	.32	.29	.23	.28
" " 12-in.	150 "	.33	.37	.30	.31	.36	.40	.40	.50	.60	.36	.30	.35
" " 15-in.	3,708 "	.60	.61	.45	.42	.48	.50	.53	.50	.73	.47	.40	.48
" " 18-in.	4,120 "	.72	.60	.55	.52	.60	.62	.68	.75	.86	.57	.51	.61
" " 20-in.	1,230 "	1.00	.79	.75	.69	.82	.80	.90	.97	1.15	.73	.68	.80
" " 24-in. D. S.	2,290 "	1.90	1.31	1.25	1.20	1.31	1.40	1.55	1.50	1.49	1.74	1.45	1.13
" " 5-in.	2,500 "	.09	.10	.10	.17	.15	.12	.15	.27	.12	.16	.08	.08
3 feet in length, 8-in.	18,890 "	.21	.21	.17	.18	.225	.25	.23	.30	.23	.25	.16	.215
" " 10-in.	710 "	.29	.29	.26	.27	.32	.35	.35	.43	.33	.34	.24	.32
" " 12-in.	1,260 "	.37	.39	.35	.36	.41	.45	.47	.50	.62	.42	.32	.40
" " 15-in.	2,960 "	.63	.53	.50	.44	.53	.55	.58	.55	.76	.54	.40	.55
Concrete sewer, per lineal ft.													
4 ft. circular	200 "	2.23	4.35	3.00	3.08	3.55	3.50	2.33	2.50	5.00	1.90	1.84	2.71
3 ft. 8 in. x 5 ft. 6 in.	1,300 "	3.53	4.40	3.50	3.08	3.70	4.00	4.00	2.67	3.87	2.50	2.44	3.59
5 ft. x 7 ft. 6 in.	4,790 "	5.17	6.75	4.00	4.56	6.80	5.50	4.70	4.00	7.38	3.65	3.68	3.87
Iron pipe, 16-in. per lineal ft.	432 "	1.81	2.25	5.00	5.00	3.72	3.00	3.80	2.00	2.00	2.90	1.72	2.40
" " 12-in. " "	96 "	1.20	2.00	5.00	5.00	2.60	2.00	2.84	1.75	1.50	2.10	1.45	1.80
Excavation and back filling, per lineal ft.													
0 to 6 ft.	27,935 "	.20	.18	.20	.24	.19	.20	.19	.28	.30	.29	.16	.22
6 to 8 ft.	69,198 "	.27	.23	.25	.375	.27	.25	.26	.28	.32	.34	.31	.30
8 to 10 ft.	20,923 "	.38	.27	.30	.505	.38	.35	.44	.35	.39	.47	.50	.38
10 to 12 ft.	10,983 "	.50	.40	.45	.705	.49	.70	.88	.50	.55	.68	.90	.72
12 to 14 ft.	7,060 "	.74	.46	1.25	1.13	.90	1.20	1.30	.50	.65	1.46	1.65	1.10
14 to 16 ft.	1,953 "	.90	.55	3.00	1.46	1.20	1.50	1.50	2.50	.85	2.05	2.66	2.62
16 to 18 ft.	1,623 "	1.15	.80	5.00	1.65	1.50	1.75	2.00	3.00	1.00	2.15	2.90	2.25
18 to 20 ft.	1,772 "	1.43	1.20	6.00	2.63	1.90	2.00	3.00	5.00	1.20	3.59	5.65	6.12
20 ft. +	1,320 "	1.64	1.30	7.00	3.62	2.25	2.50	5.00	6.00	1.50	4.23	2.50	6.12
Manoles, concrete each	12	25.00	32.00	50.00	37.50	40.00	25.00	27.50	28.00	30.00	40.00	12.00	40.00
" brick "	290	29.00	34.50	50.00	35.00	26.50	25.00	27.50	25.00	25.00	36.00	32.00	40.00
Flush tanks "	177	58.00	60.00	95.00	70.00	40.00	50.00	55.00	58.00	60.00	62.00	46.00	50.00
Lampholes "	242	2.70	3.50	5.00	7.50	3.00	3.00	2.00	5.00	5.00	4.00	2.30	2.50
Sewer junction	1	150.00	120.00	250.00	250.00	375.00	150.00	100.00	200.00	200.00	200.00	115.00	150.00
Repaving, Asphalt per sq. yd.	400 sq. yds.	3.50	2.00	2.50	2.50	2.50	3.00	3.00	1.75	3.0[illegible]	3.00	1.84	3.50
" Block Asphalt " "	1,240 "	1.00	.60	3.00	1.50	2.00	3.00	2.25	.60	2.50	3.00	2.30	2.50
" Brick " "	1,100 "	1.00	.50	1.50	1.00	1.35	1.00	1.90	.60	1.87	1.50	1.61	2.00
" Boulder per lin. ft.	11,100 lin. ft.	.04	.10	.10	.10	.11	.20	.10	.20	.15	.10	.12	.15
Concrete, Outlet wall per cu. yd.	40 cu. yds.	5.00	8.50	5.00	10.00	8.00	6.00	6.00	8.00	6.00	9.00	4.00	7.50
" for iron pipe " "	1 444 "	4.00	7.00	9.00	8.00	7.00	6.00	6.00	8.00	6.00	5.00	4.00	10.00
Sheeting left in trench	100,000 ft. B. M.	18.00	30.00	25.00	25.00	20.00	10.00	20.00	25.00	20.00	25.00	19.00	20.00
Flush tank connections													
Lead pipe, with trenching	3,790 lin. ft.	.28	.25	.45	.25	.55	.25	.36	.50	.37	.30	.14	.30
Lead pipe, without trenching	10,840 "	.18	.20	.30	.16	.25	.18	.10	.20	.25	.20	.29	.20
Cocks and specials	177 "	7.50	1.00	7.50	10.00	6.50	11.00	5.00	5.00	2.00	9.00	2.90	2.50
Total		$148,835	$149,253	$155,098	$158,221	$162,399	$164,838	$166,875	$173,189	$177,491	$179,311	$182,216	$188,558

*DISTRIBUTING CANALS.—Reno, Nev.—Bids were received by U. S. Reclamation Service July 15 for construction of about 37 miles of main distributing canals, involving about 1,500,000 cu. yds. earth work, with diverting dam, regulating gates, spillways, falls, weirs and bridges. Bids were taken on four schedules, A, B, C, D, those on A being for excavation and embankments, those on B for headworks, those on C for spillways, falls and lateral headgates, and those on D for highway bridges. The latter bids were not itemized and consequently are not given under Contract Prices. C. W. Swain, Ione, Cal., at $4,288, was low bidder for this work. For work under Schedule "A" Jno. W. Beasley, Wardsworth, Nev., bid on Div. 7, his bid totaling $29,900, and H. A. Whitley, San Francisco, Cal., bid on Div. 1, his bid totaling $100,797. The bids received were as follows:

BIDS RECEIVED AT RENO, NEV., JULY 15, FOR CONSTRUCTION OF ABOUT 37 MILES OF MAIN DISTRIBUTING CANALS.—FOR WORK UNDER SCHEDULE "A."

	Porter Bros.	Utah Cons. Co., Ogden, Utah.	Donald Grant & Co.	Winters, Jones & Co., Spokane.	Mahoney Bros., Salt Lake.	W. D. Clark, Fallon, Nev.	McLean & McSweeney.	W. C. Bradbury, Denver, Col.	Corey Bros. Cons. Co., Ogden, Utah.	E. B. & A. L. Stone Co., Oakland, Cal.	Deal Bros. & Mendenhall Cons. Co., Springville, Utah.	Springville Cons. Co., Springville, Utah.	San Francisco Cons. Co.	Pacific Coast Cons. Co., Portland, Ore.	W. F. Beard & Co., Modesto, Cal.	R. A. Moncure, Reno, Nev.
Div. 1. Class 1, 325,000 cu. yds.	.22½	.16	.24½	.20	.18	....	....	.18	....	.30	....	.24	.25	.15	....	.25½
" 2	.35	.40	.45	.35	.35	....	....	.40	....	.50	....	.40	.40	.25	....	.50
" 3	.35	.60	.45	.40	.50	....	....	.50	....	.75	....	.50	.45	.35	....	.50
" 4	1.10	1.00	1.25	.75	.80	....	....	1.10	....	1.00	....	.95	1.25	.80	....	1.25
Overhaul, 4,700 cu. yds, 100 ft.	.01	.01	.01¼	.01½	.01½	....	....	.02	....	.02	....	.01	.01	.01	....	.01
Total	$73,172	$52,047	$79,684	$65,070	$58,570	....	....	$58,594	....	$97,594	....	$78,047	$81,297	$48,797	....	$82,922
Div. 2. Class 1, 200,000 cu. yds.	.22½	.14	.21¼	.14	.14	....	....	.162	....	.25	.17	.15	.22	.13	....	.22½
" 2	.35	.40	.45	.35	.35	....	....	.40	....	.50	.32	.40	.40	.25	....	.50
" 3	.37	.60	.45	.40	.50	....	....	.50	....	.75	.40	.50	.45	.35	....	.50
" 4	1.10	1.00	1.25	.75	.80	....	....	1.10	....	1.00	.75	.95	1.25	.80	....	1.25
Overhaul, 20,000 cu. yds, 100 ft.	.01	.01	.01¼	.01½	.01½	....	....	.02	....	.02	.01	.01	.01	.01	....	.01
Total	$45,200	$28,200	$43,250	$28,300	$28,300	....	....	$32,800	....	$50,400	$34,200	$30,200	$44,200	$26,200	....	$45,200
Div. 3. Class 1, 215,000 cu. yds.	.22½	.13¼	.21	.17	.15	....	.20	.162	.16	.25	.17	.15	.19½	.13	....	.20
" 2	.35	.40	.45	.35	.35	....	.50	.40	.40	.50	.32	.40	.40	.25	....	.50
" 3	.37	.60	.45	.40	.50	....	.95	.50	.40	.75	.40	.50	.45	.35	....	.50
" 4	1.10	1.00	1.25	.75	.80	....	1.25	1.10	.75	1.00	.75	.95	1.25	.80	....	1.25
Overhaul, 1,000 cu. yds., 100 ft.	.01	.01	.01¼	.01½	.02	....	.01½	.02	.01	.02	.01	.01	.01	.01	....	.01
Total	$48,385	$28,497	$45,162	$36,565	$32,270	....	$43,015	$34,850	$34,410	$53,770	$36,560	$32,260	$41,935	$27,960	....	$43,010
Div. 4. Class 1, 185,000 cu. yds.	.18	.13¼	.20½	.14	.15	.14	.18	.162	.14	.20	.16	.16½	.17½	.13	.13	.18
" 2	.35	.40	.45	.35	.35	.20	.50	.40	.40	.50	.32	.40	.40	.25	.40	.50
" 3	.37	.60	.45	.40	.50	.30	.95	.50	.40	.75	.40	.50	.45	.35	.50	.50
" 4	1.10	1.00	1.25	.75	.80	.75	1.25	1.10	.75	1.00	.75	.95	1.25	.80	.90	1.25
Overhaul, 40,000 cu. yds., 100 ft.	.01	.01	.01¼	.01½	.02	.01	.01½	.02	.01	.02	.01	.01	.01	.01	.01	.01
Total	$33,700	$24,912	$38,425	$26,500	$28,550	$26,300	$33,900	$30,770	$26,300	$37,800	$30,000	$30,925	$32,775	$24,450	$24,450	$33,700
Div. 5. Class 1, 175,000 cu. yds.	.18	.13¼	.19	.14	.14	.14	.18	.17	.14	.20	.15½	.16	.17½	.12	....	.18
" 2	.35	.40	.45	.35	.35	.20	.50	.40	.40	.50	.32	.40	.40	.25	....	.50
" 3	.37	.60	.45	.40	.50	.30	.95	.50	.40	.75	.40	.50	.45	.35	....	.50
" 4	1.10	1.00	1.25	.75	.80	.75	1.25	1.10	.75	1.00	.75	.95	1.25	.80	....	1.25
Overhaul, 13,000 cu. yds., 100 ft.	.01	.01	.01¼	.01½	.02	.01	.01½	.02	.01	.02	.01	.01	.01	.01	....	.01
Total	$31,630	$23,317	$33,412	$24,695	$24,760	$24,630	$31,695	$30,010	$24,630	$35,260	$27,255	$28,130	$30,755	$21,130	....	$31,630
Div. 6. Class 1, 210,000 cu. yds.	.18	.13¼	.19	.14	.15	....	.19	.16½	.14	.20	.17	.15	.17½	.12	.14½	.18
" 2	.35	.40	.45	.35	.35	....	.50	.40	.40	.50	.32	.40	.40	.25	.40	.50
" 3	.37	.60	.45	.40	.50	....	.95	.50	.40	.75	.40	.50	.45	.35	.50	.50
" 4	1.10	1.00	1.25	.75	.80	....	1.25	1.10	.75	1.00	.75	.95	1.25	.80	.90	1.25
Overhaul, 50,000 cu. yds., 100 ft.	.01	.01	.01¼	.01½	.02	....	.01½	.02	.01	.02	.01	.01	.01	.01	.01	.01
Total	$38,300	$28,325	$40,525	$30,150	$32,500	....	$40,650	$35,650	$29,900	$43,000	$36,200	$32,000	$37,250	$25,700	$30,950	$38,300
Div. 7. In water, 2,400 cu. yds.	3.50	.60	2.00	.25	....	....	....	1.00	....	3.00	.40	.40	2.00	.75	....	3.25
Class 1, 165,000 cu. yds.	.17½	.13¼	.19	.14	....	....	....	.16	....	.20	.15	.16	.17½	.12	....	.18
" 2	.35	.40	.45	.35	....	....	....	.40	....	.50	.32	.40	.40	.25	....	.50
" 3	.37	.60	.45	.40	....	....	....	.50	....	.75	.40	.50	.45	.35	....	.50
" 4	1.10	1.00	1.25	.75	....	....	....	1.10	....	1.00	.75	.95	1.25	.80	....	1.25
Overhaul, 5,000 cu. yds., 100 ft.	.01	.01	.01¼	.01¼	....	....	....	.02	....	.02	.01	.01	.01	.01	....	.01
Total	$37,325	$23,352	$36,212	$23,775	....	....	....	$28,900	....	$40,300	$25,760	$27,410	$33,725	$21,650	....	$37,550

FOR WORK UNDER SCHEDULE "B"

	Porter Bros.	Utah Cons. Co.	Atlantic, Gulf & Pacific Co.	Donald Grant & Co.	Winters, Jones & Co.	W. C. Bradbury.	E. B. & A. L. Stone Co.	San Francisco Cons. Co.	Pacific Coast Cons. Co.	R. C. Mattingly.
Concrete 2,675 cu. yds.	$9.75	$6.00	$8.00	$16.00	$8.50	$8.60	$9.00	$8.50	$8.00	$6.65
Bearing piles, 12" x 12" 108x20 lin. ft.	.40	.36	.36	.30	.30	.40	.40	.40	.50	.35
Driving bearing piles per pile.	3.50	5.00	5.00	5.00	4.00	2.50	6.00	4.50	8.00	3.00
Sheet piling, 6" x 12" 370 x 20 lin. ft.	.21	.24	.22½	.15	.16	.27	.25	.25	.25	.22
Driving sheet piling per pile.	2.50	8.00	5.00	2.00	4.00	2.75	6.00	4.50	3.00	1.75
Sheet piling, 6" x 12' 320 x 20 lin. ft.	.20	.18	.18	.15	.15	.22	.20	.22	.20	.18
Driving sheet piling per pile.	2.50	9.00	5.00	2.00	3.00	2.50	6.00	4.50	2.50	1.50
Caps and flooring 84,960 ft. B.M., per M.	40.44	35.00	40.00	40.00	34.00	45.00	40.00	45.00	32.00	37.25
Foot planks, 2 x 12 585 ft. B.M., per M.	33.00	40.00	40.00	30.00	34.00	40.00	40.00	45.00	32.00	40.00
Flash boards, bound 92, each.	3.75	4.00	5.00	1.50	2.00	4.00	3.00	1.50	5.00	1.00
Gates and guides, C. I. 94,300 lbs., per lb.	.09	.07½	.08½	.13	.07	.10	.11½	.08½	.11	.06½
Ball-bearing stands 23, each.	270.00	275.00	125.00	250.00	233.00	275.00	265.00	120.00	250.00	210.00
Steel rising gates 4, each.	950.00	810.00	970.00	3,800.00	782.40	660.00	1,050.00	400.00	565.00	810.00
Steel I-beams 8,610 lbs., per lb.	.07½	.05½	.05½	.10	.06	.05¼	.06½	.06	.09	.06
Rip-rap 1,000 cu. yds.	5.30	2.50	5.00	8.00	3.75	5.55	3.00	4.00	2.50	4.00
Paving 40,000 sq. ft.	.22	.12	.40	.40	.13	.24	.15	.15	.13½	.15½
Puddling 250 cu. yds.	.60	.50	2.50	1.00	.30	.25	1.50	2.00	.25	3.00
Back filling 700 cu. yds.	.40	.40	.60	.30	.25	.25	1.00	.25	.20	.30
Total	$69,355	$54,317	$69,802	$109,522	$56,300	*$67,812	$68,329	$58,005	$58,842	$52,168

FOR WORK UNDER SCHEDULE "C"

	Porter Bros.	Utah Cons. Co.	Atlantic, Gulf & Pacific Co.	Donald Grant & Co.	Winters, Jones & Co.	W. C. Bradbury.	E. B. & A. L. Stone Co.	San Francisco Cons. Co.	Pacific Coast Cons. Co.	R. C. Mattingly.
Concrete 2,400 cu. yds.	$10.50	$8.00	$13.75	$16.00	$9.50	$10.50	$10.00	$8.50	$9.00	$8.00
Steel Is, Ls and Ts 9,000 lbs., per lb.	.08	.06	.07	.10	.06	.05¼	.06½	.06	.09	.07½
Steel gates, 24' 9" x 2' 6" 1, each.	889.75	769.00	900.00	325.00	744.90	595.00	975.00	300.00	550.00	784.00
20' 0" x 2' 6" 1, "	847.00	746.00	875.00	325.00	718.20	500.00	925.00	250.00	455.00	757.00
17' 0" x 3' 4" 4, "	837.00	753.00	880.00	325.00	727.20	550.00	950.00	250.00	480.00	765.00
14' 6" x 2' 6" 2, "	771.00	687.00	800.00	325.00	647.40	470.00	850.00	220.00	400.00	686.00
14' 6" x 2' 1" 2, "	660.00	682.00	800.00	325.00	640.80	423.00	825.00	220.00	360.00	670.00
22' 0" x 2' 1" 1, "	707.00	729.00	850.00	325.00	698.10	510.00	910.00	220.00	452.00	736.00
14' 6" x 3' 4" 2, "	708.00	730.00	850.00	325.00	699.24	482.00	925.00	220.00	440.00	738.00
Flash boards, bound 28, "	4.00	4.00	5.00	2.50	2.00	4.00	3.00	1.50	5.00	1.00
Lumber, O.P 25,500 ft. B.M., per M.	38.00	40.00	40.00	30.00	35.00	43.00	40.00	45.00	35.00	40.00
Rip-rap 300 cu. yds.	7.00	3.00	6.00	8.00	3.75	5.55	3.00	4.00	2.50	5.00
Paving 25,000 sq. ft.	.30	.15	.40	.40	.13	.24	.15	.15	.13¼	.17
Puddling 250 cu. yds.	.60	.50	2.50	1.00	.30	.25	1.50	2.00	.25	3.50
Rubble masonry 2,000 cu. yds.	9.00	8.00	14.00	16.00	7.00	11.00	13.00	5.40	14.00	7.75
Back filling 1,000 cu. yds.	.40	.40	.60	.30	.25	.25	1.00	.25	.20	.30
Old 50-lb. rails 25 T., per T.	......	......	......	......	60.00	65.00	......	60.00	......	......
Total	$65,221	$51,501	$86,750	$89,310	$53,533	$65,038	$69,524	$43,219	$61,607	$52,873

*If awarded, B and C deduct 60 cents per cu. yd. on concrete.

SEWER PIPE.—St. Albans, Vt.—Contract for furnishing sewer pipe, f. o. b., St. Albans, has been let to H. G. Folsom & Co., at the following bid: 3,000 ft. of 10-in. pipe, 24 cts. per ft., 1,400 ft. 12-in. pipe, 33 cts., and 1,000 ft. 15-in. pipe, 44 cts: Special cash discount of 2½% will be allowed if the pipe is paid for within ten days from its receipt.

HYDRANTS, GATE VALVES, KALAMEIN PIPE, ETC.—San Diego, Cal.—Contracts for furnishing Board Public Service with supplies have been let as follows, bids received July 14; G. A. D'Hemecourt, Cy. Engr.: Fire hydrants, Standard Iron Works, double, $20.50; single, $19. Cast-iron pipe, Christian Froelich, 4-in., $34.10 per ton, 6-in. to 24-in., $32.80 per ton; specials, 3 1-3 cts. Gate valves, J. D. Hooker & Co., 4-in., $5.95, 6-in., $10.70, 8-in., $14.55, 10-in., $23.75, 12-in., $29.80, 16-in., $57.75, 18-in., $69.45, 24-in., $184, 30-in., $274. Cast-iron sewer pipe, Christian Froelich, 20-in., $32.80, and special castings at 3 1-3 cts.; 20-in. gate, $110. Cast-iron rims and corners, South Bend Foundry Co., 1.90 cts. per lb. Following bids were received for kalamein pipe, and all of them rejected: Western Metal Supply Co., 6-in., 49½ cts.; 8-in., 78 cts.; 12-in., $1.40. Crane & Co., 6-in. 49½ cts.; 8-in., 78 cts.; 12-in., $1.40. Dunham Carrigan & Hayden, 6-in., 49½ cts.; 8-in., 78 cts.; 12-in., $1.40.

DREDGING.—New York, N. Y.—Following bids per cu. yd., were received by Capt. Edward H. Schulz, U. S. Engrs., July 16, for dredging in East Chester Creek: John & Joseph McSpint, 118 Wayne St., Jersey City, N. J., 39 cts.; Kirk, Driscoll & Co., 78 Broad St., New York city, 44½ cts.; Edward A. Berry, Rensselaer, N. Y., 49 cts.

ROADS AND WOODEN SIDEWALKS.—Port Townsend, Wash.—Following bids were received July 16 by Capt. Geo. H. Penrose, Q. M., U. S. A., for constructing roads and wooden sidewalks at Fort Flagler, Wash.:

Bids received at Port Townsend, Wash., July 16, 1904, for Constructing Roads and Wooden Sidewalks at Fort Flagler, Wash.

Bidders.	Grading, 4,160 yds.	Surfacing, 1,965 yds.	8-in. pipe.	6 ft. walk, 2,470 ft.	Total.	Time.
James Lee, Tacoma, Wash.	$0.27	$0.97	$0.87	$0.27	$3,696	60 days.
Peter M. Coyne, Port Townsend, Wash	.27	.60	.55	.32	3,093	6 mos.
Sam McGee, Port Townsend, Wash.	.31	.75	.65	.30	3,504	4 mos.
D. McInnis, Port Townsend, Wash.	.30	.85	.60	.32	3,709	3 mos.

*DRAINAGE CANALS.—New Orleans, La.—Bids were received by Sewerage and Water Board July 7 for the construction of drainage canals. Dowdle & Windett, Hennen Bldg., New Orleans, La., were successful bidders for Contracts U and Z, at $92,650 and $92,370, respectively. Proposals were also received on Contracts 27 and Y, and itemized bids for these are given elsewhere in this issue. The itemized bids for Contract U, which calls for construction of the Orleans and Claiborne drainage canals, are as follows:

Bids received at New Orleans, La., July 7, 1904, by the Sewerage and Water Board on Contract U.

Items.	Quantities.	Dowdle & Windett.	Irwin Bros.	W. O. & C. G. Burton.
Excavation, including back-filling, grading, etc.	20,000 cu. yds.	$0.75	$1.25	$2.00
Over-haul, per yard, per 1,000 ft. in excess of 500 ft.	2,000 "	.20	.25	.10
Brickwork	200 "	14.00	17.00	12.00
Concrete, 1 : 2 : 4	1,200 "	9.00	10.00	11.00
Concrete, 1 : 3 : 6	3,300 "	8.50	8.00	10.00
Surfacing	4,400 sq. yds.	.50	.80	9.00
Steel rods placed in concrete	91,000 lbs.	.05	.04	.03
Cast iron	60,000 "	.04	.03	.03
Yellow pine piling, driven	5,000 lin. ft.	.30	.50	.30
Yellow pine lumber placed in bridges, etc.	30,000 ft. B. M.	40.00	42.00	35.00
Pecky cypress planking, placed	280,000 "	18.00	38.00	25.00
Vitrified clay pipe, 36-in., furnished and placed	900 lin. ft.	4.00	4.50	7.00
" " 30-in., " "	100 "	3.00	3.30	6.00
" " 24-in., " "	2,400 "	1.75	2.20	5.00
" " 18-in., " "	200 "	1.25	1.60	3.00
" " 15-in., " "	100 "	1.00	1.00	1.75
" " 12-in., " "	500 "	.75	.80	1.60
" " 8-in., " "	900 "	.50	.60	.75
" " 6-in., " "	200 "	.15	.40	.60
3-in. porous drain tile	8,500 "	.10	.12	.25
Sand and cinders, in equal proportions	450 cu. yds.	2.50	2.75	2.00
Stone curbing, reset and relined	100 lin. ft.	.20	.40	.50
Stone curbing removed	100 sq. ft.	.10	.10	.25
Cypress curbing, furnished and placed	5,000 ft. B. M.	40.00	50.00	30.00
Vitrified brick pavement, taken up and relaid	2,500 sq. yds.	2.00	2.50	2.00
Asphalt pavement, taken up and relaid	200 "	4.00	3.50	3.50
Schillinger pavement on sidewalks, taken up and relaid	100 "	1.75	1.50	2.00
Brick pavement on sidewalks, taken up and relaid	200 "	1.00	.80	.50
Flushing valve, complete, in place	1	....	....	....
30 and 36-in. vitrified clay pipe, placed but not furnished	950 lin. ft.	1.00	1.20	4.00
Totals		$92,650	$113,237	$176,850

*DRAINAGE CANAL.—New Orleans, La.—Bids, as follows, were received by the Sewerage and Water Board July 7 for execution of Contract Y, calling for construction of the Orleans and Melpomene wood-lined drainage canal. These bids being considered too high were rejected, and the work will be readvertised:

Bids received at New Orleans, La., July 7th, 1904, for the execution of Contract Y.

Items.	Quantities.	Irwin Bros.	Dowdle & Windett.	W. O. & C. G. Burton.
Excavation and delivering excavated material not over 125 feet	140 000 cu. yds.	$0.50	$0.90	$2.00
Overhaul, per yard, per 1,000 ft. in excess of 125 ft.	45,000 "	.20	.25	.10
Rehandling excavated material, shaping sides of canal	7,000 "	.30	.30	.60
12-in. round piling, driven	95,000 lin. ft.	.50	.50	.30
9-in. round piling, driven	24,000 "	.40	.50	.28
6 x 3-in. square cypress piling, driven	30,000 "	.20	.06	.20
Yellow pine or cypress capping	624,000 ft. B. M.	50.00	40.00	30.00
Creosoted yellow pine	1,350,000 " "	52.00	53.00	45.00
Yellow pine in bridges, etc.	68,000 " "	40.00	40.00	35.00
Cypress lumber in culverts	114,000 " "	40.00	35.00	25.00
Totals		$252,880	$303,870	$414,620

*DRAINAGE CANAL.—New Orleans, La.—Following bids were received by Sewerage and Water Board July 7 for execution of Contract 27, which calls for construction of Broad St. wood-lined canal; contract awarded to Thomas Egan; all bidders from New Orleans unless otherwise stated:

Bids received July 7 for construction of Broad Street Drainage Canal, Wood-Lined.

Items.	Approximate quantities	Thomas Egan, 757 Magnolia St.	E. C. Royal, 604 Valence St.	W.O. & C.G. Burton, Richmond, Va.	Mike Mitchell, 1400 Tulane Ave.	Benj. W. Borne, 821 Opelousas Ave.	Dowdle & Windett, Hennen Building.	Jos. A. Craven & Co., 1332 Tulane Ave.
Excavation	14,000 cu. yds	.49	.53	1.50	.52	.61¾	.93	1,12
Overhaul, per yd. per thousand ft. in excess of 40 ft.	5,000 cu. yds	.20	.30	.10	.58	.65	.20	.60
Sheet piling driven	460,000 ft. B.M.	24.75	31.40	45.00	41.25	41.75	41.00	46.00
Lumber as rangers, braces and culverts	435,000 ft. B.M.	24.75	31.40	32.00	42.75	43.44	40.00	46.00
Yellow pine lumber placed in bridges, etc.	12,000 ft. B.M.	27.00	28.00	30.00	43.75	44.50	40.00	48.00
Total		$30,335	$37,359	$56,480	$48,276	$50,530	$50,760	$60,426

BRIDGE SUBSTRUCTURE.—Chicago, Ill.—The following bids were received July 13 by the Trustees Sanitary District for constructing substructure of a bridge over the Chicago River at 22d St.; (1) Chicago & Great Lakes Dredge & Dock Co., Chicago; (2) Fitzsimmons & Connell Co., Chicago; (3) Roemheld & Gallery, Chicago; (4) Jackson-Corbett Co., Chicago:

Bids received at Chicago, Ill., July 13, 1904, for substructure of a bridge over the Chicago River at 22d street.

Items.	Unit	(1)	(2)	(3)	(4)
Excavation, above 30 ft. 8,000 cu. yds.	per cu. yd.	$0.65	$0.70	$0.75	$0.80
Excavation between 30 and 42 ft.	" "	1.00	1.25	1.25	2.00
Excavation, curb wall, 550 cu. yds.	" "	.50	.45	.50	.40
Oak timber in wales, 17,000 ft. B.M.	per 1,000 ft. B.M.	50.00	48.00	50.00	50.00
Pine foundation piles, delivered, 53,000 lin. ft.	per lin. ft.	.17	.17	.17	.18
Oak protection piles, delivered, 11,500 lin. ft.	" "	.20	.21	.21	.20
Piles driven in foundation, 28,000 lin. ft.	" "	.12	.10	.13	.09
Oak piles driven in protection, 11,500 lin. ft.	" "	.10	.10	.12	.09
Portland cement concrete in abutment above 30 ft.—4,200 cu. yds.	per cu. yd.	6.00	6.45	6.50	6.50
Concrete in curb walls, 1,000 cu. yds.	" "	5.00	4.50	4.75	5.00
Portland cement concrete in abutment bet. 30 and 42 ft.	" "	6.50	7.50	7.50	7.00
Furnishing reinforcing corrugated bars, 34,000 lbs.	per lb.	.03½	.03	.03	.03
Setting and erecting substructure metal, 142,000 lbs.	" "	.00⅓	.00½	.00⅜	.00½
Dredging in channel, 16,000 cu. yds.	per cu. yd.	.30	.30	.40	.40
Filling in approach, 3,300 cu. yds	" "	.45	.50	.40	.50
Removal of present superstructure		750.00	900.00	1,000.00	800.00
Removal of present substructure		1,250.00	1,000.00	1,250.00	1,700.00
Removal of old sewers		250.00	650.00	300.00	500.00
Furnishing tools, etc., for building, etc., cofferdams east side of river.		10,700.00	12,500.00	12.000.00	12,500.00
Furnishing tools, etc., for building, etc., cofferdams west side of river.		10,000.00	11,500.00	11,000.00	12,500.00
Removal of the pile and timber approaches on both sides of the river.		400.00	300.00	900 00	500.00
Total		$83,643.33	$88,658.50	$91,342.50	$93,445.00

*STEEL BRIDGES.—Chicago, Ill.—The following bids were received July 20 by Major C. S. Riche, U. S. Engrs., for manufacture and erection of four steel highway bridges over Illinois and Mississippi Canal:

Bids received at Chicago, Ill., July 20, 1904, for Manufacture and Erection of Four Steel Highway Bridges, over Illinois and Mississippi Canal.

Bidders.	Steel. 139,672 lbs.	Forgings, 13.500 lbs.	Cast Iron, 122,400 lbs.	Oak, 12,459 ft. B.M.	Pine or Fir, 10,851 ft. B.M.	Total.
St. Paul Foundry Co., St. Paul, Minn.	$0.044	$0.098	$0.0335	$57.00	$37.00	$12,681.00
Modern Steel Structural Co., Waukesha, Wis.	.040	.08	.04	33.00	27.00	12,267.00
Massillon Bridge Co., Massillon, O.	.0414	.082	.03	45.00	45.00	11,610.00
Van Dorn Iron Works Co., Cleveland, O.	.046	.16	.02	40.00	35.00	11,911.00
Pittsburgh Steel Construction Co., Pittsburgh, Pa.	.0397	.1205	.0247	39.00	31.00	11,017.00
King Bridge Co., Toledo, O.	.05	.09½	.0185	45.00	40.00	11,525.00
Wallace Marshall, La Fayette, Ind.	.0474	.12	.0225	49.00	39.00	12,028.00
Morava Construction Co., Chicago, Ill.	.0395	.12	.03	60.00	60.00	12,208.00
Worden-Allen Co., Milwaukee, Wis.	.0567	.10	.03⅛	56.00	36.50	14.647.00
Horace E. Horton, Chicago, Ill.	.04⅛	.07⅛	.03⅛	45.00	40.00	11,543.00

MEXICO.

RAILWAYS.

ETZATLAN, JALISCO.—Amparo Mining Co. is stated to be considering construction of ten mile road to connect its mines with the Mexico Central, and has already ordered an engine and two cars. Charles Smith of Charles K. Smith & Co., Philadelphia, Pa., is interested.

STREET AND ELECTRIC RAILWAYS.

AGUASCALIENTES.—The company owning elec- tric tramways in Aguascalientes proposes to ... the lines to Santa Maria, which will require the construc- tion of several kilometers of line and several ...

PARRAL, CHIHUAHUA.—It is reported that the syn- dicate organized for the construction and operation of electric tramways in the city of Parral, previously re- ferred to, is progressing favorably, the shares of the company being in active demand. It is also proposed to construct an extensive system of telephone lines con- necting the city of Chihuahua with the principal mining camps and agricultural and cattle regions in the state. Lorenzo J. Arellano, Parral, is interested.

TAMPICO.—It is stated that Mexican capitalists have abandoned the idea of taking over local horse car sys- tem and converting it into an electric system. It is claimed, however, that this will not deter the present car company of Tampico from installing an electric sys- tem at their earliest opportunity.

LIGHT AND POWER PLANTS.

CANTON DE JALAPA, VERA CRUZ.—Francisco Massillon, representing the smelting company known as La Sociedad Altos Hornos Mexicanos, situated in the Canton de Jalapa, state of Vera Cruz, has applied for concession for 400 liters from a stream called Arroyo de las Fundiciones.

CITY OF MEXICO.—Andres Lefebre, Pres., Compañie Bancaria Catolice de Mexico, has applied for a concession of 3,000 liters of water per second from the Lagos River in the District of Lagos, Jalisco.

PUEBLA, PUEBLA.—The Compania Anonima del Alumbrado Electrico, which has lately secured the renewal of the contract for the lighting of the city of Puebla, will require considerable additional macainery for their plant.

VELARDENA, DURANGO.—Dr. A. T. Grove, Secy. American-Mexican Co., of Chicago, Ill., has just left Mexico for the United States, and it is expected that bids will be called for soon for the extensive power plant to be erected at Velardena to operate the two large smelters it is proposed to construct, and to drive the machinery in the mines.

ZACATLAN, PUEBLA.—Engineer Manuel Pardo has applied for concession for ten cubic meters per second from the San Miguel River in the district of Zacatlan, Puebla, to be used for power purposes.

BUILDINGS.

CHIHUAHUA, CHIHUAHUA.—The federal government will construct military hospital at Chihuahua to cost $120,000.

SALTILLO, COAHUILA.—Plans for the normal school which the state of Coahuila is to build at Saltillo, have been completed, and work will be commenced as soon as possible. The building will be of stone, three stories high, and contain 80 rooms. The cost will be about $500,000. Henry M. Guindon, San Luis Potosi, is Arch. Miguel Cardenas is governor of the state.

WATER-WORKS.

CITY OF MEXICO.—The City of Mexico proposes to construct water-works to increase the present water supply. Further information may be obtained from Ing. Manuel Marroquin y Rivera, care of Direccion General de Obras Publicas, Mexico City.

LA PAZ, PAJA CALIFORNIA.—A company is being organized at La Paz, for the introduction of potable water into the city.

MANUFACTURING PLANTS.

CITY OF MEXICO.—The Mexican Tropical Plantation Co. has increased its capital from $200,000 to $500,000, and will make considerable improvements, among which will be the enlargement of the capacity of the sugar mill. The headquarters of the company have been removed from Kansas City, Mo., to Williamsport, Pa. The officers of the company are: President, James D. Moore, Philadelphia; Vice-Pres., John G. Reading, Williamsport; Secy., Riley W. Allen, Williamsport. Luis Kunz is Manager at the plantation.

SALINA CRUZ, OAXACA.—Parraga Brothers, 56 Pine St., New York, are reported interested in a project to build a refinery on large salt deposits which they have acquired in the locality of Salina Cruz. A cableway about a mile long will also be erected. The equipment, machinery, etc., will be purchased in the United States.

MISCELLANEOUS.

AGUASCALIENTES.—Prospective purchasers or partners are solicited for purpose of forming company to exploit copper mines at Tepezala and Asientos, and the iron mines "Vulcano" and "Cupido" near this place. It is proposed to start a foundry on a large scale. Further information may be obtained from Engineer G. A. Marquez, Aguascalientes.

CITY OF MEXICO.—The Swansie mine, 15 miles south of Bacoachi, Sonora, is to be reopened and it is understood plans are being made to erect a concentrating plant at an early date.

Under a concession which has been granted to Manuel Cuesta Gallardo, a resident of Guadalajara, work is in progress and plans contemplate the making of a canal from eastern part of the Lake Chapala, near La Barca, to a reservoir which is to be constructed. In addition to this, concession grants permit to generate electrical power from the waters of said lake. Engineers are now making estimates and it is thought in four or five months plans will have matured.

Capt. Charles Holt, New York, N. Y., who represents the syndicate which is to exploit the sulphur deposits in the crater of Mount Popocatepetl, is planning the erection of a loading plant at Vera Cruz, to save time in loading and the expense of wharfage. The plant is intended to be of a capacity to load about 7,000 tons of sulphur, per hour, on the ships, and is expected to cost about $150,000.

CITY OF MEXICO.—The Mexican Telephone Co. has commenced the removal of its office to its new central exchange, 8 Calle del Arco de San Agustin, and as soon as the change is effected will commence the laying of the conduits for its underground system.

COSALA, SINALOA.—A complete plant of American mining machinery is to be installed at La Dura mine, in the Cosala district, state of Sinaloa. Francisco Aragon, is owner of the mine.

CONTRACT PRICES.

*DAM.—Pittsburg, Pa.—Following bids were received at U. S. Engineer's Office July 13 for construction of Chanoine Dam; (1) Charles Lieb and Louis P. Eigeirman, Rockport, Ind.; (2) Dravo Contracting Co., Lewis Block, Pittsburg; (3) Baker & Egan, Farmers' Bank Bldg., Pittsburg:

Bids received at Pittsburg, Pa., July 13, 1904, for Construction of Chanoine Dam.

Items.	Quantities.	(1)	(2)	(3)
Excavation	4,726 cu. yds.	$1.00	$1.00	$0.80
Hemlock timber	362,364 ft. B.M.	100.00	60.00	50.00
Oak timber	235,268 ft. B.M.	120.00	80.00	85.00
Cast iron	33,808 lbs.	.07	.07	.05
Placing iron furnished by U. S.	85,300 lbs.	.015	.02	.0175
Medium steel	104,368 lbs.	.07	.07	.07
Placing steel furnished by U. S.	38,500 lbs.	.015	.02	.0175
Bolts and washers	31,020 lbs.	.07	.07	.05
Concrete	2,100 cu. yds.	9.00	8.00	6.00
Reinforcing steel	38,333 lbs.	.07	.07	.05
Stone filling (crib)	2,070 cu. yds.	5.00	3.00	3.00
Stone filling (above dam)	396 cu. yds.	5.00	3.00	3.00
Common filling	7,286 cu. yds.	.75	1.00	.60
Drift-bolts	26,690 lbs.	.07	.07	.05
3½-in. galvanized iron pipe	704 lin. ft.	.75	1.00	.75
4-in. galvanized iron pipe	352 lin. ft.	1.00	1.00	1.00
Sheet piling	95,040 ft. B. M.	100.00	90.00	90.00
Totals		$134,525	$105,254	$91,665

MEXICO (Continued).

GUADALAJARA, JALISCO.—A project is being matured to construct a large smelter in the state of Jalisco, probably at Guadalajara. A subsidy of at least $50,000 is asked from the state, and exemption from taxation for a term of years. Alfredo M. Campanella, an engineer, of Aguascalientes, is interested.

SAN LUIS POTOSI.—O. B. Hardy, according to reports, proposes to erect 50-ton furnace at his El Mesquit Mine.

SAN NICOLAS DEL ORÒ, GUERRERO.—A stamp mill, of 60 or 100 stamps is proposed for the Mina Grande property, near San Nicolas del Oro, Guerrero. The mine is being operated by the Balsas Valley Mining Co. W. W. Miller is Superintendent of the mine, and has recommended the erection of the mill.

SANTA ROSA.—G. A. Case, a Sonora mining man, has been to Europe to organize a company to develop a group of claims near Santa Rosa, Sonora. Active operations will begin early in September and it is intended to install a large amount of machinery; also to erect a big plant.

FOREIGN CONTRACTS—EXPORT NEWS.

LIGHTING.—Portugal.—Barcellos City Council will take bids in the near future for the concession of lighting the city electrically for term of 30 years' duration.

RAILROAD CONSTRUCTION.—Costa Rica.—A plan is to be presented to Costa Rican Congress for the completion of a line of railway across the country from the Atlantic to the Pacific. It will be necessary to construct about 12 miles of line, and it is probable that the government will invite some foreign company to do the work.

BRIDGE.—Sunderland, England.—Bids are to be asked for erection of new railway and road bridge over the Wear. The cost, which is estimated at about $2,000,000, is to be borne by the corporation and the North Eastern Ry. Co. The bridge is to be erected from designs of C. A. Harrison, Ch. Engr., Northern Division, above-mentioned railway.

RIVER IMPROVEMENT.—Colombia.—Alban G. Snyder, Consul-General, Bogota, Colombia, reports that a commission has been appointed to inspect the Magdalena River from Honda to Barranquilla and to report on the improvement and canalization of the same, with specifications of the places in which there is the most urgent demand for the removal of obstacles to navigation.

PUBLIC WORKS.—Italy.—The text of a law authorizing the expenditure of about $21,530,000 by the Ministry of Public Works at Rome has been published. Of this sum about $14,400,000 is to be devoted to railway construction, about $80,000 to subsidizing motor car services in districts not served by railway or tramway, $1,400,000 to the improvement and extension of various systems of water supply, about $600,000 to assist local authorities in taking the necessary measures for protection against floods and avalanches, and about $1,400,000 to the improvement of the national highways and bridges. The remainder is allotted to the extension of the Chamber of Deputies, the Law Courts, and other public buildings.

SOUTH AUSTRALIA.

TRAMWAYS.—Adelaide.—On Dec. 31 the option in connection with the scheme for the electrification of the Adelaide Tramways, which was granted to Mr. F. H. Snow, expired. The existing horse companies are now considering the practicability of amalgamating and converting the system to electric traction. The principal company concerned is the Adelaide & Suburban Tramway Co., of which Mr. J. J. Bodley is secretary. Meanwhile a company is being formed with a capital of $500,000 for introducing motor omnibuses of 24 passenger capacity. Messrs. Beresford & Morice, Pine St., Adelaide, have the formation of the company in hand.

POTTERY WORKS.—Adelaide.—The erection of extensive pottery works has already been commenced by the London Pottery Co. (office 20 Weymouth St., Adelaide) in the neighborhood of Mt. Lofty, where large deposits of the finest qualities of china clays have recently been found. Machinery is to be put up for manufacturing both domestic and art pottery.

GERMANY.

TUBE MILL.—Kattowitz.—The "Huta Bankowa" in Sosnowitz will erect a tube mill.

ELECTRIC LIGHT PLANT.—Metz.—Director Lamm is working on the plans for the new electric light plant for this city.

RAILWAY STATION.—Heidelberg.—The government has appropriated about $5,760,000 for the erection of a new railway station.

HAT FACTORY.—Berlin.—The Berlin-Gubener Hutfabrik A. G., is to erect a hat factory to cost about $60,000. including machinery.

GAS WORKS.—Rixdorf b. Berlin.—The city council approved the issue of about $216,000 of bonds for the enlargement of the local gas works.

CHEMICAL FACTORY.—Essen a. Ruhr.—The Schalker Gruben and Huttenverein will build a factory for manufacturing various chemical products.

ARC LAMP FACTORY.—Leutsch, bei Leipzig.—A large factory for the manufacture of electric arc lamps will be erected here by Kortung & Mathiesen.

ANALINE WORKS.—Bruhl b. Mannheim.—The "Akt. Ges fur Anilin-fabrikation in Berlin," will soon commence construction here of an analine works.

POWER PLANT ENLARGEMENT.—Nurnberg.—The city council has appropriated about $93,600 for enlargement of the local power plant of the city railway.

SULPHURIC ACID PLANT.—Graslitz, Bohemia.—The Klingenthal-Graslitzer Kupferbergban-Gewerkschaft will issue about $480,000 of bonds to erect a sulphuric acid plant.

ENGINEERING MATERIAL PRICES.

These prices will appear in the first or second issue of each month.

TRACK FASTENINGS—

Chicago—at mill—Steel splice or angle bars, 1.35 to 1.40 cts.; spikes, 1.65 to 1.70 cts.; bolts, square nuts, 2.20 to 2.25 cts.; hexagon nuts, 2.30 to 2.40 cts.

RAILS, STEEL—

New York—at mill—New, standard sections, $28; light rails, tidewater, $21.50 to $23.50, old iron, f. o. b., $14.50 to $15; old steel, f. o. b., long lengths, $12.50 to $13; old steel, short pieces, $10.50 to $11; relayers, $16 to $17.

Chicago—at mills—New, $28, standard sections; light sections, $22 to $25; old iron, $14.50 to $15; old steel, 4 ft. and over, $10.75 to $11.25; old steel, less than 4 ft., $10 to $10.50; heavy relayers, $21 to $22; heavy relayers, for side tracks, $18 to $20.

Pittsburg—at mill—Standard sections, $28.

STRUCTURAL MATERIALS—

New York—at tidewater—Beams, channels, angles and zees, 1.74½ to 2 cts.; tees, 1.79½ to 2 cts.; bulb angles and deck beams, 1.84½ to 2.05 cts.

Chicago—I-Beams and channels up to and including 15-in. and angles 3-in. in one leg and larger, 1.76½ cts.; tees, $1 per ton extra. Store prices, angles, beams, channels and zees, 2 to 2.10 cts.; tees, 2.05 to 2.15 cts., random lengths or cut to 5 ft. and over.

Pittsburg—Beams, channels and zees, up to 15-in., 1.60 cts.; over 15-in., 1.70 cts.; angles, 3 × 2 up to 6 × 6, 1.60 cts.; zees, 1.60 cts.; tees, 1.60 cts.

PLATES AND SHEETS—

New York—at tidewater—Sheared plates, carload lots, tank, 1.74½ to 1.85 cts.; flange, 1.84½ to 2 cts.; marine, 1.94½ to 2.10 cts.

Pittsburg—Tank, ¼-in. thick and up to 100 ins. wide, 1.60 cts., at mill, Pittsburg; flange and boiler steel, 1.70 cts.; marine and ordinary firebox, 1.80 cts., at mill, Pittsburg; locomotive firebox, 2.10 to 3 cts.

MERCHANT STEEL—

Chicago—Machinery, smooth finished, 1.76½ to 1.81½ cts.; tire, smooth finished, 1.71½ to 1.76½ cts.; open hearth spring, 1.90 to 2.10 cts.; crucible tool, 6½ to 8 cts.; special tool, 13 cts. and up.

Pittsburg—Plow steel, 6-in. and under, 1.35 cts. for Bessemer and 1.45 cts. for open hearth; plow slabs, ¾-in. and heavier, 1.60 cts.; tire, 1.55 to 1.60 cts.; crucible tool steel, ordinary grades, 6 to 8 cts.

IRON—

Pig Iron:

New York—at tidewater—No. 1 Foundry, $14.75 to $15; No. 2 Foundry, $14 to $14.50; Gray Forge, $13 to $13.25; Tennessee and Alabama brands, $13.25 to $13.50, for No. 2 Foundry, and $12.75 to $13 for No. 3 Foundry.

Chicago—f. o. b. Chicago—Lake Superior Charcoal, $14.50 to $15.50; Northern Coke Foundry. No. 1, $13.75 to $14; No. 2, $13.25 to $13.50; No. 3, $13 to $13.25; Northern Scotch, No. 1, $13.75 to $14; Ohio Strong Softeners, No. 1, $14.55 to $14.80; No. 2, $14.05 to $14.55; Southern Silvery, according to Silicon, $14.15 to $15.15; Southern Coke, No. 1, $13.40 to $13.65; No. 2, $12.90 to $13.15; No. 3, $12.65 to $12.90; No. 4, $11.90 to $12.15; No. 1, soft, $13.40 to $13.65; No. 2, soft, $12.90 to $13.15; Southern Gray Forge, $11.90 to $12.15; Southern Mottled and White, $11.65 to $11.90; Malleable Bessemer, $13.75 to $14; Standard Bessemer, $14.25 to $14.75; Jackson County and Kentucky Silvery, 6 to 10% silicon, $16.30 to $18.30; Alabama Basic, $13.15; Virginia Basic, $13.85 to $14.10.

Pittsburg—Bessemer at Pittsburg, $12.85, at furnace, $11.75 to $11.85; Basic iron at Valley, $11.50; Northern No. 2 Foundry at furnace, $12; Forge iron at Valley, $11; Malleable Bessemer iron at Valley, $11.50.

Bars:

Refined iron, Philadelphia, 1.48½ cts.; common iron, Chicago, 1.30 cts.; Pittsburg, 1.30 cts.; steel bars, tidewater, 1.49½ cts.; Pittsburg, 1.35 cts.

Cast-Iron Pipe:

New York—Carload lots, gross tons, 6 to 10 ins., at tidewater, $25.50; 12 ins. and up, $25.

Chicago—4-in. water pipe, $25.50; 6-in. and heavier, $24.50, with $1 extra for gas pipe.

MISCELLANEOUS MATERIALS—

Asphaltum:

Ventura and other California asphalts, $25 per ton at New York; Trinidad refined, $25 per ton; Venezuela asphalt, $25 per ton.

Bitumen:

"B," 3½ cts.; "A," 5 cts.

Cement:

"Dragon" Portland, $1.60 to $1.70; Portland, Am., 400 lbs. bbl., $1.25 to $1.50; Foreign, $1.75 to $2.25; "Rosedale," 300 lbs., 80 cts.; slag cement, 90 cts. to $1.

Copper:

Lake, 12.75 to 13 cts.; electrolytic, 12.62½ to 12.87½ cts.; castings, 12.37½ to 12.50 cts.

Explosives:

Blasting powder, A, 25-lb. keg, 65 cts.; B, $1.40; "Rackarock," A, lb., 25 cts.; B, 18 cts.; Judson R. R. powder, lb., 10 cts.; dynamite (20% nitro-glycerine), 13 cts.; (30% ni.-gly.) 14 cts.; (40% ni.-gly.) 15 cts.; (50% ni.-gly.) 16½ cts.; (60% ni.-gly.) 18 cts.; (75% ni.-gly.) 21 cts.; glycerine for nitro, lb., 12⅜ to 12⅝ cts.

Lead:

New York spot, 4.30 to 4.32½ cts.

Spelter:

New York spot, 4.85 to 4.95 cts.

Tin:

New York, spot, 26 to 27.02½ cts.

LUMBER—

New York: Wholesale prices.

Piling—Eastern—Cargo rates: Ranging 30 to 40%, 12-in. butt, 35 to 40 ft., 5 cts.; 40 to 50%, 12-in. butt, 35 to 40 ft., 5¼ cts.; 50 to 60%, 12-in. butt, 38 to 40 ft., 5½ cts.; two-thirds 12-in. butt, 38 to 42 ft., 6 cts.; all 12-in. butt and up, 40 to 45 ft., 6½ cts.; all 12-in. butt and up, 48 to 50 ft. average length, 7 cts.

Spruce—Eastern—Special: Cargoes at New York, $20 to $23; random cargoes, narrow, $18 to $21; random cargoes, wide, $21 to $23.

Hemlock—Pennsylvania: Joists, 12, 13 and 14 ft., $17; boards, 13s and 16s, $19.50; boards, surfaced, $20; boards dressed and matched, $20.50.

Yellow Pine—Random cargoes, sail deliveries at New York, $20.50 to $22; flooring, No. 1, $22.50 to $23.50; flooring, No. 2 20 to $20.50; flooring, No. 3, $17 to $18; step plank, 33 to 36.

STONE—Wholesale rates, del. at N. Y.; price per cu. ft.:

Nova Scotia, in rough, 90 cts.; Ohio freestone, in rough, 85 to 90 cts.; Minnesota freestone, in rough, 90 cts.; Longmeadow freestone, 85 cts.; brownstone, Portland, Ct., 60 cts.; brownstone, Belleville, N. J., 75 cts. to $1; Scotch redstone, $1.05; Lake Superior redstone, $1.10; granite, rough, 40 to 50 cts.; limestone, buff and blue, 80 cts.; portage, $1; Caen, $1.25 to $1.55; white building marble, $1.25 to $1.75; Wyoming bluestone, 90 cts.; Euclid bluestone, 90 cts.

INDUSTRIAL NOTES.

OUR READERS are requested to send short notes regarding new contracts that they are about to award, or have secured, for our news columns. Changes in firms' names and addresses are also wanted. "Write-ups" will not be inserted under any circumstances, as notes must contain news of interest to our readers. If our readers are in the market for any kind of machinery, tools, etc., we shall be glad to send them names of responsible firms making what they want.

THE BOSTON & LOCKPORT BLOCK CO., Boston, Mass., announces that it has gotten up a handsome 46-page catalogue in Spanish, illustrating blocks, pumps and trucks. A copy will be furnished upon application.

THE TURBINE ENGINEERING CO., New York, has opened a suite of offices at No. 1207 Fisher Bldg., Chicago. The company is the selling agents for the DeLaval Steam Turbine Co. in the following states: Illinois, Indiana, Michigan, Iowa, Missouri, Kansas and Nebraska.

THE BURT MFG. CO., Akron, O., through W. F. Warden, Pres. and Gen. Mgr., while on a recent trip to Europe, made many new connections and agencies for the Cross oil filters. Mr. Warden also sold a large-sized filter to Bryant & May, the English representatives of the Diamond Match Co.

THE AMERICAN LOCOMOTIVE CO., New York, has secured the contract from the N. & W. R. R. Co., of Norfolk, Va., for seven locomotives to be of the most powerful type for handling coal from the Pocahontas fields to Norfolk and Lamberts Point. The Pullman Palace Car Co., of Chicago, is said to have a contract from the N. & W. for 20 passenger coaches and six baggage or express cars.

AUGUST MIETZ, 128 Mott St., New York, states that a 10-HP. "M. & W." engine air compressor is now in operation at the new building at 42d St. and Park Ave., New York, now in course of construction. The air compressor is an 8 × 8, giving 70 cu. ft. of free air per minute against 80 lbs. pressure. It was installed by the contractors, Ritchie, Brown & Donnelly, to furnish air for their pneumatic tools.

THE ALLIS-CHALMERS CO., Chicago and New York, is reported to have been awarded the contract for equipment calling for 100,000 HP. for improvements to be made to the system of the Brooklyn Rapid Transit Co., Thos. E. Murray, Consult. Engr. The contract requisitions for six turbines of 5,500 KW. (8,250-HP.) capacity. Each to be direct-connected to 25 cycle, 750 revs. per min., three-phase alternating generators of similar size. The generators will be wound to give either 6,600 or 11,000 volts. One of the turbo-generating sets will be installed in the huge power station which the Brooklyn Rapid Transit people are to build at Kent and Division Aves., Brooklyn. This plant will have an ultimate capacity of almost 100,000 HP. Twelve turbo-generators will be put in eventually.

THE REESE-HAMMOND FIRE BRICK CO., Bolivar, Pa., reports the following sales of its brick: Belle Vernon, Pa., let 14,000 yds. last week; L. Fishburn, contractor; Reese-Hammond Fire Brick Co.'s block to be used. Binghamton, N.Y., let 6,000 yds. to Arthur B. Osborn Co.; Reese-Hammond block used. Jersey Shore, Pa., let contract for paving four streets, 14,000 yds. with Reese-Hammond block; H. L. Ditz & Co., contractors. Altoona, Pa., let 10,000 yds. a few days ago; A. Ferr & Sons, contractors; Reese-Hammond block to be used. Ithaca, N.Y., council purchased 250,000 Reese-Hammond block to be used for paving purposes in the streets. The Wilkesbarre (Pa.) & Wyoming Valley Traction Co., adopted 250,000 Reese-Hammond block to be used on their track at Wilkesbarre.

THE INGERSOLL-SERGEANT DRILL CO., New York, states that the O'Rourke Engineering & Construction Co., which has the contract for building the Pennsylvania R.R. tunnel under the Hudson River, has placed the order with the Ingersoll-Sergeant Company for two central compressed air power plants to be located in New York and Weehawken, N. Y. This order includes six 36-in. stroke Corliss air compressors each of 3,890 cu. ft. capacity. The complete installation will include eight Corliss air compressors. With the O'Rourke plant installed, the total number of Ingersoll-Sergeant compressors supplying air for subaqueous tunnels in New York will be as follows: 6 Class "A" straight line compressors; 10 Corliss duplex compressors, 3 Class "H" duplex compressors, 2 Class "G" duplex compressors.

JOHN F. ALLEN, 370-372 Gerard Ave., New York, the manufacturer of the Allen riveting machines, has signed a five years' contract with Fenwick, Freres & Co., 21 Rue Martel, Paris, France, whereby they are to have the control of the Allen tools in France, Italy, Spain, Portugal and Belgium. They intend to carry the Allen machines in stock in their various branch houses. John F. Allen has also entered into arrangement with John Turnbull, Jun., & Sons, 190 West George St., Glasgow, Scotland, whereby they are to handle the Allen riveters for one year in Great Britain. Negotiations were completed by Mr. Campbell Turnbull, who is now in this country looking over American methods and arranging for the agencies of several tools which his firm believes can be sold largely in England, if properly introduced.

THE POWER SPECIALTY CO., 126 Liberty St., New York City, reports the following contracts closed for the installation of the Foster superheater, manufactured by it: Laclede Power Co., St. Louis (street railway), two 500 HP.; Columbian Improvement Co., Terre Haute, Ind. (street railway), two 500 HP.; Franklin Rubber Co., Boston (separately fired), one 70 HP.; Bradley-Ramsey Lumber Co., Lake Charles, La. (tie-preserving), one 100 HP.; A. B. Wrisley & Co., Chicago (soap manufactory), one 100 HP.; H. F. Watson & Co., Erie, one 80 HP.; Samuel Horner, Jr., Riverside, Ky. (cement works), separately fired, one 340 HP.; Belt Light & Power Co., Lead, S. Dak., one 200 HP.; Milwaukee Electric Ry. & Light Co., Milwaukee, five 500 HP.; Phila., Coatesville & Lancaster Ry. Co., Philadelphia, three 300 HP.

THE HARRISON SAFETY BOILER WORKS, Philadelphia, reports that the General Electric Co. has selected Cochrane feed-water heaters for their plants at West Lynn, Mass., and Harrison, N. J., where Corliss steam turbines are to be installed. These heaters are rated at 3,000 and 1,000 HP., respectively, and will take the exhaust steam from the auxiliaries. Three 5,000-HP. Cochrane heaters have also been installed in connection with steam turbines at the [illegible]way (Mich.) station of the Detroit Edison Co., and a 600-HP. Cochrane feed-water heater will be used in the new turbine station of the Iowa & Illinois Interurban Ry. Co., Clinton, Ia. A 2,000-HP. Cochrane heater, which has been ordered by the Electric Company of America, will be installed with steam turbines in their new plant plant at Marion, Ind.

THE REEVES ENGINE CO., Trenton, N. J., has installed a special cylinder boring machine, which weighs about 35 tons. It is capable of boring three or four cylinders at the same rate. It covers a floor space of 48 × 10 ft., and operates horizontally. The machine was designed by James Barrett, and built by the Meadville Vise Works, of Meadville, Pa. The Reeves company is also reported to have installed an open-side planing machine, built by the Detrick-Hawey Co., of Baltimore, Md. It weighs 24 tons, and is 48 ft. long. The Reeves company has recently filled an order for four engines for the International Steam Pump Co., two to be installed at St. Louis and two for the Henry R. Worthington Co. One of the Reeves Engine Company's engines has been installed in the mechanical laboratory at Cornell University, and during the summer will be subjected to a scientific test at the hands of the professors of the university. An order which the company will shortly deliver is a 250-HP. engine, which is to supply the light and power for the Diamond Rubber Co., at Akron, O. One of the biggest contracts the company has had in some time is for a 325-HP. engine to supply power and light for the plant of the Drew-Selby Co., of Portsmouth, O., manufacturers of ladies' shoes.

TRADE PUBLICATIONS.

(The standard sizes for pamphlets and trade catalogues recommended by all the principal engineering societies of the United States are: 3½ x 6 ins., 6 x 9 ins., and 9 x 12 ins.)

EMERY AND CORUNDUM WHEELS.—J. Jacob Shannon & Co., Philadelphia, Pa. 3½ × 6 ins.; pp. 12.

Price lists of emery wheels are given.

VALVES.—Schutte & Koerting Co., 12th and Thompson Sts. Philadelphia, Pa. 5 × 8½ ins.; pp. 8.

This folder shows sectional views of the Schutte steam valve.

CONCRETE MIXERS.—National Concrete Machine Co., Chicago, Ill. 3¾ × 8½ ins.; pp. 8.

The National Batch Mixer is illustrated and its merits set forth.

CONTRACTORS' SUPPLIES.—J. Jacob Shannon & Co., Philadelphia, Pa. 6½ × 10 ins.; pp. 12.

Steam shovels, locomotives and dump cars are illustrated in this catalogue.

ELECTRIC LOCOMOTIVES.—Jeffrey Manufacturing Co., Columbus, O. 8 × 10 ins.; pp. 14.

This pamphlet illustrates electric locomotives for gathering purposes in coal mines.

ELECTRIC ROCK DRILLS.—The Gardner Electric Drill & Machinery Co., Cleveland, O. 7½ × 11 ins.; pp. 8.

This pamphlet sets forth the merits and the principal features of the Gardner electric drill.

STEAM ENGINES AND BOILERS.—Watertown Engine Co., Watertown, N. Y. 3½ × 6 ins.; pp. 32.

Small cuts, accompanied by tables, give data as to the engines and boilers made by this firm.

ARCHITECTS' LEVELS.—Kolesch & Co., 138 Fulton St., New York. 4 × 5 ins.; pp. 12.

The adjustment and use of Y-levels are given, and the reading of rods and verniers described.

LUBRICANTS.—J. Jacob Shannon & Co., Philadelphia, Pa. 3½ × 6 ins.; pp. 16.

The merits of Albany Grease are set forth. Price lists of grease cups of different sizes are given.

ENGINES AND BOILERS.—The James Leffel & Co., Springfield, Ohio. 6 × 9 ins.; pp. 40.

Engines and boilers of different sizes and types are illustrated and described, and tabular data given.

AIR COMPRESSORS.—Great Lakes Engineering Works, Detroit, Mich. 3½ × 6 ins.; pp. 14.

The Great Lakes vertical compound two-stage compressor is described and illustrated in this catalogue.

GAS ENGINES.—The Wellman-Seaver-Morgan Co., Cleveland, O. 9 × 12 ins.; pp. 12.

A photograph and a line cut illustrate the type of gas engine made by this firm. A list of users follows.

CRUSHING ROLLS.—The Jenckes Machine Co., Sherbrooke, Quebec. 6 x 9 ins.; pp. 20.

Crushing rolls of different sizes and types, as well as automatic oil feeders, are illustrated and tabular data given.

STREET SPRINKLERS AND SWEEPERS.—Austin Manufacturing Co., Chicago, Ill. 7½ × 10¾ ins.; pp. 51.

A great many varieties of street sprinklers are shown in this catalogue. Street sweeping machines are also illustrated.

WIRE ROPE AND FITTINGS.—American Steel & Wire Co., Chicago, Ill. 5½ × 7¾ ins.; pp. 75.

Sizes, weights, strengths and price lists are given of all kinds of wire rope. Fittings, sheaves, wire rope blocks, etc., are listed.

INSTRUMENTS OF PRECISION.—Queen & Co., 1010 Chestnut St., Philadelphia, Pa. 8 × 10 ins.; pp. 14.

Engineering and mathematical instruments of all kinds are made by this company, and a few of them are illustrated in this catalogue.

FORESTRY INSTRUMENTS.—Keuffel & Esser Co., Chicago and New York. Paper, 5½ × 8½ ins.; pp. 1; illustrated.

This circular shows a tree gage and announces special instruments for forestry work.

FANS AND BLOWERS.—Niagara Radiator Co., Buffalo, N. Y. 3½ × 6 ins.; pp. 8.

This pamphlet announces that Mr. D. T. Lyon has been secured as manager of the heating, ventilating and mechanical draft department of this firm.

IRON FENCES.—Enterprise Foundry & Fence Co., Indianapolis, Ind. 3¾ × 9 ins.; pp. 64.

A great variety of plain and ornamental iron fences, fence gates, fence posts for wire fences, tubular railings, etc., are shown and described, prices being given.

SAFETY HOOKS.—Wellman-Seaver-Morgan Co., Cleveland, O. 6 × 8 ins.; pp. 12.

Safety hooks for hoisting mine cages are illustrated and described. It is stated that blue prints will be furnished, giving details as to sizes and methods of fastening.

ELECTRIC MACHINERY AND EQUIPMENT.—Stanley Electric Manufacturing Co., Pittsfield, Mass. 8 × 10½ ins.; pp. 42.

Electric generators, motors, converters, transformers, meters, switches, etc., are illustrated and described.

BELT CONVEYORS.—Jeffrey Manufacturing Co., Columbus, O. 6 × 9 ins.; pp. 8.

Photographs are shown of the sectional type of belt conveyor for handling boxes, barrels, bags and other packages of materials, as well as loose broken stone, gravel, etc.

DYNAMOMETERS.—George I. Alden, 48 Queen St., Worcester, Mass. 4 × 8 ins.; pp. 8.

The Alden Absorption Dynamometer is very fully described and its construction shown by means of line cuts. Directions are also given for setting up and running the dynamometer.

CARPENTERS' AND MECHANICS' TOOLS.—J. Jacob Shannon & Co., Philadelphia, Pa. 6 × 9½ ins.; pp. 62.

This catalogue contains price lists of different sizes and kinds of saws, hammers, augers, planes, vices, and other tools used by mechanics and carpenters, together with a complete index.

PAINTS AND PAINTING MACHINES.—The Hook-Hardie Co., Hudson, Mich. 3¼ × 6 ins.; two catalogues, 16 and 32 pages, respectively.

Color cards of paints, and price-lists are given. Pneumatic painting machines are illustrated and described and prices given.

TRENCH BRACES.—Dunn Manufacturing Co., Pittsburg, Pa. 5 × 7 ins.; pp. 20.

Extensible Trench Braces, or Ditch Jacks, are listed, prices and sizes being given, followed by a number of interesting photographs showing the braces in use in actual trench work.

ELECTRIC COAL MINING PLANT.—Jeffrey Manufacturing Co., Columbus, Ohio. 8 × 10 ins.; pp. 15.

This is a paper by Sanford B. Belden, describing two sizes of electric coal mining machine plants, giving the approximate cost of equipment, together with estimates as to saving effected.

REDWOOD TANKS, DOORS AND SASH MOLDINGS.—Redwood Mfg. Co., 8 California St., San Francisco, Cal. Paper; 7 × 10 ins.; pp. 88; illustrated.

Tanks are given a secondary place here. Eastern readers will be interested to see the wide range of uses to which redwood is put.

STUMP PULLERS.—R. S. Caward, Cresco, Ia. 6 × 9 ins.; pp. 60.

The Faultless grubbing machine and stump puller is illustrated and data given as to its efficiency. A large number of letters recommending the machine are to be found in this catalogue.

GAS AND GASOLINE ENGINES.—The New Era Gas Engine Co., Dayton, Ohio. 6 × 8; pp. 16.

Contractors will be interested especially in the portable gasoline engine made by this company. It is made in sizes from 2 HP. up to 24 HP., its weight with trucks being from 1,500 to 7,500 lbs.

SWITCHBOARDS.—The F. Bissell Co., Toledo, O. 4 × 6 ins.; pp. 52.

A great variety of switchboards are illustrated and tabularly described. One of the valuable features of the catalogue is that prices are quoted on all complete switchboards, including crating.

PUMPS FOR BEET SUGAR FACTORIES.—Knowles Steam Pump Works, New York. 5¾ × 7½ ins.; pp. 65.

Two pages are devoted to a description of the beet sugar industry, after which follow illustrations and tabular descriptions of the various pumps and machinery made by this firm for beet sugar factories.

POWER PUMPS.—The Goulds Mfg. Co., 8 Oliver St., Boston, Mass., and Machinery Hall, Louisville Purchase Exposition, St. Louis, Mo. Paper; 5 × 4 ins.; pp. 32; illustrated.

This neat little pamphlet was prepared for circulation at the St. Louis Exposition. It tells about "power pumps and hydraulic machinery for every service."

COAL POCKETS.—The Link Belt Engineering Co., Philadelphia, Pa. 6 × 9 ins.; pp. 32.

This catalogue illustrates a number of retail coal pockets built by this firm, and the arrangement of elevating and conveying machinery used in these coal pockets. Plants for unloading coal from boats are also illustrated.

GRAPHITE.—Joseph Dixon Crucible Co., Jersey City, N. J. 5¼ × 8 ins.; pp. 52.

This pamphlet discusses the use of graphite for lubrication, and contains some very interesting data on the subject, including tests of efficiency. The ways of feeding graphite are illustrated and discussed in detail.

AIR COMPRESSORS.—Chicago Pneumatic Tool Co., Chicago, Ill. 6 × 9 ins.; pp. 72.

Beside the regular illustrations and tabular data usually found in catalogues of air compressors, some valuable information is given on the installation of compressor plants, the advantage of compound compressing, etc.

WHITEWASHING AND PAINTING MACHINES.—Star Brass Works, 152 East Lake St., Chicago, Ill. 3½ × 6½ ins.; pp. 28.

A number of different types of pneumatic whitewashing and painting machines are illustrated and described, and prices given. Instructions for operation are outlined.

ROCK CRUSHERS.—The Jenckes Machine Co., Sherbrooke, Quebec. 6 × 9 ins.; pp. 64.

The Farrel Crusher, Bacon's patent, manufactured by this firm, is illustrated and descriptions given, together with tables of sizes, capacities, prices, etc. Line drawings show different approved installations in detail.

BOLTS, WASHERS, SPIKES, ETC.—The Diamond State Steel Co., Wilmington, Del. 6 × 9 ins.; pp. 40.

Tables of sizes, weights and prices are given, of machine bolts, carriage bolts, lag screws, bolt ends, bridge and roof bolts, nuts, turn buckets, railroad spikes, track bolts, rivets, cast iron washers, cast columns, etc., etc.

ROAD MACHINERY.—American Road Machine Co., Kennett Square, Pa. 6½ × 9½ ins.; pp. 52.

The well-known Champion rock crusher is illustrated and tabular data given. Belt conveyors for handling broken stone are shown; also traction engines, portable saw mills, road scrapers, rollers, plows and sprinkling wagons.

FLAP VALVES FOR SEWERS.—Perfect Sewer Trap Mfg. Co., 61 Beekman St., New York City. Paper; 4 × 8 ins.; pp. 8; illustrated.

A flap valve, made accessible by means of a removable cap, is here figured for use to prevent the access of back water or sewage and of foul air to dwellings or other buildings.

TOOLS FOR SEWER CONSTRUCTION.—Joseph G. Pollard, 141 Raymond St., Brooklyn, N. Y. 3½ × 5½ ins.; pp. 8.

This folder illustrates and gives dimensions and prices of hickory mauls, steel plank caps, steel plank drawers, tunneling scoops, galvanized cement buckets and contractors' picks.

DEEP-WELL PUMPS.—The Downie Pump Co., Downieville, Pa. Paper, 7 × 10 ins.; pp. 60; illustrated.

Among other kinds included in this catalogue are double and single acting pumps, geared and windmill pumps, gas and gasoline pumping engines. Pump accessories, electric motors, gas and gasoline engines and well supplies are also listed.

ROAD MACHINERY.—American Road Machine Co., Kennett Square, Pa. 6½ × 9 ins.; pp. 52.

The Champion rock crusher is described and illustrated in detail. Revolving screens, belt conveyors, traction engines, rock drills, road machines, road rollers, steel scrapers, and other tools and machines for road building, are illustrated.

DRILLING MACHINERY.—Thomas H. Dallett Co., Philadelphia, Pa. 6 × 9 ins.; pp. 44.

This company makes a specialty of portable drilling machinery, and in this catalogue will be found the different types of drills made, dimensions, capacities, prices, etc. Electric portable drills are featured. The Dallett hand drills are also listed.

ROCK CRUSHERS.—Austin Manufacturing Co., Chicago, Ill. 7½ × 10¾ ins.; pp. 84.

The Austin Gyratory Crusher is illustrated by cross-section cuts, as well as photographs; and a large number of testimonial letters are given as to its efficiency. Interesting photographs and line cuts show installations of crushing plants at different places.

HIGH SPEED ENGINES.—Skinner Engine Co., Erie, Pa. Paper; oblong; 9 × 7 ins.; pp. 51; illustrated.

The Skinner is a horizontal engine of the automatic type, and fitted with a lubricating system. The engine and its working parts are described and illustrated in detail; there are also tables of dimensions. The engines are built both simple and tandem compound.

STERILIZATION AND FILTRATION OF WATER SUPPLIES.—Ferrochlore Process and Howatson's System. Extracts from the Official Reports of the French Government, Belgium Government and City of Paris. Andrew Howatson, Assoc. M. Inst. C. E., 1 Rue Saint-Pierre, Neuilly, Paris. Paper; 6×9 ins.; pp. 16; illustrated.

The process here described consists of treating water with perchloride of iron and chloride of lime, and subsequently passing it through mechanical filters. Almost complete bacterial removal is claimed.

CHAIN GEAR.—The Link Belt Engineering Co., Philadelphia, Pa. 3¾ × 7½ ins.; pp. 34.

The Renold silent chain gear for power transmission is featured in this catalogue. The reasons why this type of chain makes very little noise are given, and its merits set forth. An interesting photograph shows the chain used in driving an automatic organ, where the absence of slip and noise is essential. A number of other interesting photographs show the noiseless chain used in transmitting power from electric motors.

COUPLERS.—The W. J. Clark Company, Salem, O.; 6 × 9 ins.; pp. 28.

The "Quick-As-Wink" coupler, as adapted for use on air, steam or gas hose, is illustrated and its merits set forth, a price-list being given of couplers of different sizes and types, followed by a long list of brief testimonials. This coupler is also specially adapted for use on fire hose, and a number of interesting photographs are shown to illustrate the rapidity with which a nozzle can be fastened to the hose, or separate sections of hose joined together.

PAVING TOOLS AND MACHINERY.—Contractors' Tool Co., Philadelphia, Pa. Two catalogues: No. 50, 6 × 9 ins.; pp. 24; No. 62, 3¼ × 6½ ins.; pp. 32.

Catalogue No. 50 contains asphalt steam rollers and surface hand rollers, followed by illustrations and cuts of molding kettles, mastic kettles, fire wagons, smoothing irons, surface heaters and other tools and machinery for asphalt work. Catalogue No. 62 illustrates and describes tools used for cement work and concrete work, such as jointers, groovers, curb tools, edgers, corner trowels, cement rollers, etc.

WATER SOFTENING PLANT.—Kennicott Water Softener Co., Railway Exchange, Chicago. Paper; 9 × 12 ins.; pp. 18; illustrated.

This is a handsome reprint of an article describing the water softening installation of the Pittsburg & Lake Erie Ry., which consists of ten Kennicott plants at the different water stations. The general system is described, with views of the detail parts and complete plants. Analyses are given of some of the raw waters, but not of the water after treatment, although the general chemical effect of the treatment is described.

VALVES, COCKS AND PIPE FITTINGS.—Crane Co., Chicago, Ill. Cloth; 4 × 7 ins.; pp. 464.

This handy catalogue contains illustrations and tabulated data of a great variety of brass and iron valves, steam and gas pipe fittings, boiler fittings, car heater fittings, gaskets, steam whistles, water gages, oil cups, steam gages, hose, sectional pipe covering, brackets and wheel plates, etc., etc. The book is provided with an excellent index, which, together with its neat binding, makes it very serviceable as a reference book.

HIGH SPEED ENGINES.—American Engine Co., Bound Brook, N. J. Paper; oblong; 9 × 6¼ ins.; pp. 48; illustrated.

The American-Ball engines are horizontal, both single and compound; the latter are on the "duplex compound" plan, in which the cylinders are placed one above the other and both piston rods are attached to the same crosshead. The special features and advantages of the engine are set forth, the details of construction are described, and there are indicator diagrams and tables of dimensions and weights.

VERTICAL CORLISS ENGINES.—The Hooven Owens, Rentschler Co., Hamilton, O. Paper, 9¼ × 12¼ ins.; pp. 16; illustrated.

The Hamilton-Corliss horizontal engine is well known, but this attractive publication describes the new vertical type of engine, the first example of which forms one unit of the power plant at the St. Louis exhibition. Large half tone engravings show the general design of the engine, and also the arrangement of its valve gear; while there are also line drawings of elevations and sections. This first engine is rated at 2,500 HP.

CONTRACTORS' SUPPLIES AND EQUIPMENT.—Maryland Equipment & Supply Co., 310 St. Paul St., Baltimore, Md. 5½ × 8 ins.; pp. 8.

A large number of different makes of contractors' locomotives of different gages are listed, the prices being given for each. A number of different sizes of hoisting engines of different makes are likewise listed and prices given. This company evidently has on hand a large variety of steam rollers, traction engines, dump cars, pumps, concrete mixers, stone crushers, boilers, rock drills, relaying rails, etc., for sale.

CONCRETE-STEEL GRAVITY DAMS.—Ambursen Hydraulic Construction Co. (temporary offices), 176 Federal St., Boston, Mass. Paper; 8 × 10½ ins.; pp. 19; illustrated.

This is an unusually interesting trade catalogue, largely because prepared by engineers for engineers. Several types of concrete-steel dams are described and their adaptability for special conditions set forth. A four-page pamphlet, called Bulletin No. 2, accompanies the larger catalogue. It is devoted to the concrete-steel dam at Theresa, N. Y., which was described in Engineering News of Nov. 5, 1903.

STEAM BOILERS.—The Hodge Boiler Works, Mason Building, Boston, Mass. 7 × 9½ ins.; pp. 50.

This catalogue contains a general description of the mode of construction of different types of boilers, followed by tables of dimensions, horse power, etc. Cross-sections show the mounting of return tubular and internally-fired boilers of the larger sizes. The Manning boiler, marine boilers, locomotive boilers, and small vertical boilers are illustrated and described. The catalogue closes with a long list of users of the boilers made by this firm. It should be added that an interesting chart is given, of the weight and cost of standpipes.

ACME GAS & GASOLINE ENGINES.—The S. M. Jones Co., Toledo, O. 9 × 6 ins.; pp. 37.

This is the company of which the late Samuel M. Jones, Mayor of Toledo, O., was at the head. It has made a specialty of gas engines for the pumping of oil wells and also builds the Rathbun gas engine for sizes from 25 to 125 HP. This engine, using natural gas, is claimed to develop a brake horse-power on 12 cu. ft. of gas at any load between maximum and one-third capacity and at a load 20% less than its rating will not consume over 10 cu. ft. per brake horse-power.

An extract from the preface to this catalogue was published in our issue of July 21.

SURVEYING INSTRUMENTS.—The A. Lietz Co., 422 Sacramento St., San Francisco, Cal. Boards; 6 × 9 ins.; pp. 200.

Comparatively few engineers are aware that scientific instruments are made on the Pacific coast. This catalogue shows transits, levels and other engineering instruments of precision made by this firm. The use of instruments is very fully described in a number of professional papers, one of which treats of stadia measurements, accompanied by a very good table of stadia reductions; another paper treats of the principles of the slide rule; and a third paper gives practical hints on how to tell a good surveying instrument. The adjustments of all instruments are described in such detail as to make the book of use to instrumentmen as a book of reference. A full index is given of the contents.

INDUSTRIAL CARS, LOCOMOTIVES AND TRACK.—Wonham-Magor Engineering Works, New York. 6 × 9 ins.; pp. 122.

Hopper cars, steel gondola cars, tank cars, steel flat cars and dump cars in great variety are illustrated, and their dimensions and weights given. Cars for billets, for cable railways, mining buckets, charging cars, skips, dryer cars, logging cars, contractors' dump cars, locomotives, switches and crossings are illustrated, and desirable data given.

COAL POCKET, PUMP AND ELECTRICAL MACHINERY.

East Orange, N. J., July 25, 1904.

Sealed proposals will be received by the City Council of East Orange, at their Council room in the City Hall, on Main St., on the 15th day of August, 1904, at 8 o'clock p. m., for constructing a Concrete Coal Pocket at the Pumping Station at White Oak Ridge.

Proposals for the above must be endorsed "Proposal for Constructing a Concrete Coal Pocket, East Orange Water-Works," also with the name of the person making the proposal and the date of presentation.

Sealed proposals will be received at the same time and date for furnishing and erecting one Centrifugal Pump, having a capacity to pump 5,000,000 U. S. gallons in 24 hrs. with 26-ft. lift; also one Electric Motor of 45 HP., direct-connected to the pump; also one 50-KW. Electric Generator; and one 75-HP. Steam Engine, direct-connected; also one 7-KW. Lighting Generator, direct-connected to steam turbine; also 80 Incandescent Lights with fixtures; together with switchboard, wiring, etc., the whole to be erected in the pumping station at White Oak Ridge.

Proposals for the above must be endorsed "Proposal for Centrifugal Pump and Electric Machinery, East Orange Water-Works," also with the name of the person making the same, and the date of presentation.

Specifications and plans may be seen at the office of C. C. Vermeule, Engineer in Charge, 203 Broadway, New York.

The City Council reserves the right to reject any or all proposals.

All proposals must be enclosed in sealed envelopes and addressed and delivered to Stephen M. Long, City Clerk, not later than the date and time above named.

STEPHEN M. LONG,
5-1t City Clerk.

OFFICE CONSTRUCTING QUARTERMASTER, Prescott, Ariz., Aug. 3, 1904.—Sealed proposals, in triplicate, will be received here until 3 p. m., Sept. 10, 1904, and then opened for furnishing and placing window and door screens. Information in this office and in offices of Chief Quartermasters Denver, Colo.; and San Francisco, Cal., and Recruiting Officer, Los Angeles, Cal. CHAS. C. WALCUTT, JR., Captain, and Q. M. 5-4t

REPAIRING ICE BREAKER.

Peru, Ill., Aug. 1, A.D. 1904.

Notice is hereby given that sealed proposals will be received by a joint committee, consisting of the Commissioners of Highway of the Town of Peru, Mayor, Street and Alley Committee of the City of Peru, in the County of La Salle and State of Illinois, and three Supervisors appointed by the County Board of said County of La Salle, on the 15th day of August, A. D. 1904, for the building of a protection in midstream, and the repairs and alterations upon the present structure, known as the ice-breaker, all lumber to be Washington or Oregon fir.

That the same will be let by contract by public letting to the lowest responsible bidder at the hour of 1 o'clock p. m., of said day, at City Clerk's Office in the Masonic Bldg., Peru, Ill.

The amount and kind of work to be done is as follows: To drive the necessary amount of piling, and repair and alter old structure according to plans and specifications. All piling to be not less than 12 ins. in diameter at point. Plans and specifications may be found at the City Clerk's Office in the Masonic Bldg., 4th St., Peru, Ill.

Bids will be received for the entire work as a whole, or for each class of work separately. The Committee reserves the right to reject any or all bids.

All work to be completed on or before the 1st day of December, A.D. 1904. A certified check or cash to the amount of $1,000, must accompany each bid.

Dated at Peru, Illinois, this first day of August, A. D. 1904.

W. H. CONARD, Chairman.
C. F. GUENTHER, Clerk. 5-1t

TREASURY DEPARTMENT. Office of the Supervising Architect, Washington, D. C., July 28, 1904.—Sealed proposals will be received at this office until 3 o'clock p. m. on the 8th day of September, 1904, and then opened, for the low pressure steam heating apparatus, complete, in place for the U. S. Post Office at Norwich, Conn., in accordance with the drawings and specification, copies of which may be had at this office, or at the office of the Superintendent at Norwich, Connecticut, at the discretion of the Supervising Architect. JAMES KNOX TAYLOR, Supervising Architect. 5-2t

SEWERAGE SYSTEM.

Mount Carmel, Pa.

Sealed proposals will be received by the Borough Council of Mount Carmel, Pa., up to 8 o'clock p. m., Thursday, Aug. 20, 1904, for the construction of concrete, brick and terra cotta pipe sewers, from 11 ft. in diameter to 8 ins., with manholes and storm-water inlets. Each proposal must be accompanied with a certified check, upon some National Bank, for 5% of total amount of bid. Plans can be seen and forms of proposal, contract and specifications obtained at the Engineer's Office in Wilmington, Del., or at the City Hall in Mount Carmel, Pa. The Borough Council reserves the right to reject any or all bids.

JOHN F. GIBBONS,
Chairman Sewer Committee.
T. CHALKLEY HATTON, Consult. Engr. 5-2t

PAVING AND SEWERS.

Fremont, Ohio.

Sealed proposals will be received by the Board of Public Service of the City of Fremont, Ohio, for sewering and paving with paving brick or other suitable material, W. State St., Fremont, O., until 12 o'clock, noon, Aug. 16, 1904.

Approximate quantities: 28,688 sq. yds. paving, 10,100 ft. curb reset, 5,950 ft. of sewers—9, 15, 18 and 20-in. pipe.

Plans and specifications are on file at the City Engr.'s office.

A certified check in the sum of $500 is required with paving bid, and a check of $150 with sewer bid, as a guarantee of good faith on the part of the bidders.

C. H. BAUMAN,
Clerk.
GEO. W. LESHER,
City Engineer. 4-1t

OFFICE OF THE COMMISSIONERS, D. C., Washington, July 20, 1904.—Sealed proposals will be received at this office until 12 o'clock M., August 15, 1904, for constructing the sewage disposal system, water and L street intercepting sewer in the District of Columbia. Specifications and blank forms of proposal may be obtained at this office. The right is reserved to reject any and all bids or parts of bids. HENRY B. F. MACFARLAND (Chester Harding, Acting), Commissioners, D. C. 4-2t

DEPARTMENT OF THE INTERIOR, United States Geological Survey, Reclamation Service, Washington, D. C., July 29, 1904.—Sealed proposals, in duplicate, will be received at the office of the U. S. Reclamation Service at Montrose, Colorado, until 10 o'clock a. m., September 15, 1904, for the construction of about 15 miles of main distributing canals, involving about 700,000 cu. yds. of earthwork, for the conveyance and partial distribution of about 1,300 cu. ft. of water per second from the mouth of the Gunnison Tunnel near Cedar Creek Station to a point on the Uncompahgre River about 9 miles south of Montrose, Colorado. Bids will be received on excavation and embankment for one or more divisions which will approximate 50,000 cu. yds. each. The right is reserved to award to one bidder as many or as few of such divisions as the interest of the service may require. Specifications, form of proposal, and plans may be inspected after August 10, 1904, at the office of the Chief Engineer of the Reclamation Service, Washington, D. C.; at the office of the District Engineer, U. S. Reclamation Service, Chamber of Commerce Building, Denver, Colo., and at the office of the U. S. Reclamation Service, Montrose, Colo. Each bid must be accompanied by a certified check for 5% of the amount of the bid, payable to the Secretary of the Interior, as a guaranty that the bidders will, if successful, promptly execute a satisfactory contract and furnish bond in the sum of 50% of the bid for the faithful performance of the work. The right is reserved to reject any or all bids, to waive technical defects, or to accept one part of a bid and reject another, as the interests of the service may require. Bidders are invited to be present. Proposals must be marked "Proposal for the Construction of South Canal, Uncompahgre Valley Project." THOS. RYAN, Acting Secretary. 5-6t

QUARTERMASTER'S OFFICE, West Point, N. Y., August 3, 1904.—Sealed proposals in triplicate, subject to the usual conditions, will be received at this office until 12 m., August 23, 1904, for Enlarging Army Service Barracks. The United States reserves the right to accept or reject any or all proposals. Address J. M. CARSON, JR., Major and Quartermaster, U. S. M. A. 5-3t

OFFICE OF THE COMMISSIONERS, D.C., Washington, Aug. 2, 1904.—Sealed proposals will be received at this office until 12 o'clock m., Aug. 29, 1904, for constructing a portion of the Sewage Disposal System Outfall Sewer in the District of Columbia. Specifications and blank forms of proposals may be obtained at this office. The right is reserved to reject any and all bids or parts of bids. HENRY B. F. MACFARLAND, HENRY L. WEST, CHESTER HARDING (acting), Commissioners, D. C. 5-1t

For other Proposal Advertisements see pages 35, 36, of Advertisements and Construction News pages 61, 62.

CENTRIFUGAL PUMPING ENGINE.

Kansas City, Mo.

Sealed bids will be received by the Board of Public Works, at their office in the City Hall, in Kansas City, Missouri, until 2 o'clock P. M., August 12, 1904, for the construction, delivery and erection of a Centrifugal Pumping Engine in every way complete for continuous service, upon proper foundations provided by the city, in the present building at Quindaro Pumping Station, Kansas.

The Pumping Engine to be of sufficient power and capacity to pump Twenty-five million (25,000,000) U. S. gallons of water in twenty-four (24) hours, from the settling basins into the flow line extending from Quindaro to Turkey Creek Station, against a head of from thirty-three (33) to forty-seven (47) feet above the settling basins, with a steam pressure of one hundred and fifty (150) pounds per square inch, in accordance with the plans and general specifications on file in the office of the Water Department of Kansas City, Missouri.

INSTRUCTIONS.

All proposals must be made upon the printed forms furnished by the Board of Public Works.

Each proposal must be submitted in a sealed envelope, and endorsed upon the outside, "Proposal for Constructing and Erecting Pumping Engine, Kansas City, Mo.," and addressed "Board of Public Works."

Each proposal must be accompanied by plans and specifications in sufficient detail to fully and distinctly show and describe the Pumping Engine proposed to be furnished, and the necessary foundations; also a definite statement of the guaranteed duty, and the approximate weight of said Pumping Engine.

No proposal will be considered unless accompanied by cash or a certified check on a solvent Kansas City bank, or solvent trust company, made payable to the City Comptroller, amounting to ten (10) per cent. of the price bid, as a guarantee that should the contract by awarded to such parties, they will within ten (10) days enter into contract and furnish security satisfactory to the City Comptroller, for the construction, delivery and erection of the Pumping Engine named in such proposal. In case of failure or neglect of the parties to enter into a contract, said certified check or cash shall be immediately forfeited, without recourse, to Kansas City.

Each proposal shall contain a statement definitely guaranteeing the time in which the Pumping Engine shall be installed ready for regular service; as time is an essential element, the bidder guaranteeing the earliest installation, other conditions being equal, will be given preference.

When firms bid, the individual members shall sign their full names, with places of residence, and the firm's name be added.

Two proposals from one person, firm or association, under different names, will not be considered.

Bidders are requested to be present at the opening of the bids.

The Board of Public Works does not bind itself to accept the lowest or any bid offered, and reserves the right to reject any or all bids, or to waive any informality in the bids, when it seems to be to the interest of Kansas City so to do.

EVERETT ELLIOTT,
4-2t Secretary Board Pub. Wks.

PAVING.

Dowagiac, Mich., July 27, 1904.

Sealed proposals will be received by the City Council of the City of Dowagiac, Michigan, at the City Council Chambers until 8 o'clock p. m., on Friday, August 12, 1904, for the paving of Front St., Commercial St. and Beeson St. within the limitations of the special assessment district embracing each street, respectively, with brick on concrete, sheet asphalt on concrete or bitulithic on concrete, or bituminous base with the necessary drainage, cement curb and gutter, and other appurtenances, in accordance with the plans and specifications which may be seen at the office of the City Clerk, Dowagiac, Michigan.

A certified check for the sum of $500 will be required as a guaranty of good faith on the part of bidders. Bond will be required.

The City Council reserves the right to reject any or all bids or waive defects in bids, in the interest of the City.

By order of the City Council.

H. L. RUTTER,
5-1t City Clerk.

U. S. ENGINEER OFFICE, Vicksburg, Miss., June 18, 1904.—Sealed proposals for building Locks and Dams Nos. 4 and 6, Ouachita River, Ark., and La., will be received here until 11 a. m., Aug. 17, 1904, and then publicly opened. Information on application. H. M. ADAMS, Lieut.-Col., Engrs. 25-3t, 4-3t

LEVEES, STORM SEWERS AND PUMPING STATION.

Office Board of Fire and Police Commissioners.
Memphis, Tenn., July 19, 1904.

Sealed proposals will be received by the Secretary of the City of Memphis until noon, Sept. 1, 1904, for furnishing labor and materials and for constructing a system of levees, storm water sewers and pumping station at Memphis, Tenn.

The work to be done consists of placing about 75,000 yds. of earth fill in levees, earth for filling to be cut from streets within a radius of 4,000 ft.

Constructing about 7,500 ft. of storm sewer of vitrified pipe, sizes 18-in. to 36-in.

Constructing about 5,000 ft. of storm sewer of cast-iron pipe, sizes 16-in. to 48-in.

Constructing steel reinforced concrete pumping station.

Furnishing and erecting one 24-in. centrifugal pump and 175-HP. electric motor; one 20-in. centrifugal pump and 150-HP. electric motor; one 8-in. centrifugal pump and 40-HP. electric motor.

Bids will be received on above work as a whole or any part of same.

Plans may be seen and specifications received at the office of the City Engineer of Memphis.

Each proposal must be accompanied by a certified check for Five Hundred ($500) dollars, payable to the City of Memphis, as a guarantee that the contract will be entered into in case bid is accepted.

Proposals must be made on blank forms attached to specifications, sealed and addressed to the Secretary of the City of Memphis and endorsed on the envelope "Proposal for North Memphis Levees."

The right is reserved to reject any and all bids.

By order of the Board of Fire and Police Commissioners. J. J. WILLIAMS,
Attest, Mayor.
W. B. ARMOUR,
City Secretary. 5-4t

ELECTRIC PLANT.

Thomson, Ga., July 25, 1904.

Sealed proposals will be received until 6 o'clock p. m., Aug. 22, 1904, by the Mayor and City Council, of Thomson, Ga., for labor and all material necessary to complete a system of Electric Lights for the Town of Thomson.

The Electric Light Plant will consist of one brick power house; 1 66" × 16' high pressure boiler, heater and feed pump; 1 135-HP. engine; 1 90-KW. alternator and station apparatus; 6 arc lamps, 36 50-c. p. series incandescent lamps; 800 lights capacity in transformers, wire, pole, lines, etc.

A certified check for 5 per cent. of bid, payable to Ira E. Farmer, Mayor, must accompany each bid. Successful bidders will be required to make surety bond equal to 50 per cent. of contract price. Plans and specifications on file with W. R. Hadley, City Clerk, Thomson, Ga.

Right is reserved to reject any or all bids.

IRA E. FARMER, Mayor.
JOS. B. McCRARY, Engineer. 5-3t

WATER WORKS AND SEWERS.

Corinth, Miss.

Sealed proposals will be received by the Mayor and Board of Aldermen of the City of Corinth, Mississippi, at the Mayor's office until 3 p. m., Aug. 30, 1904, when they will be publicly opened, for the furnishing of all the material and the construction of a waterworks and system of sanitary sewers.

Each proposal must be made out upon a form furnished by the city, and be accompanied by certified check equal to 5% of the total amount of the offer, assurity that the contract will be entered into with a satisfactory surety company bond equal to 50% of the amount of the proposal within 15 days from the date of award.

The right is reserved to reject any and all proposals. For a synopsis of the specifications, instructions to bidders and form of proposal, address

T. K. YOUNG, Mayor,
Corinth, Mississippi.
C. H. JENKS, Engr.,
Fayette, Miss. 5-3t

TREASURY DEPARTMENT, Office of the Supervising Architect, Washington, D. C., July 28, 1904.—Sealed proposals will be received at this office until 3 o'clock p. m. on the 6th day of September, 1904, and then opened, for the construction (including heating apparatus, electric wiring and conduits) of the U. S. Post Office at Marshalltown, Iowa, in accordance with the drawings and specification, copies of which may be had at this office, or at the office of the Postmaster at Marshalltown, Iowa, at the discretion of the Supervising Architect. JAMES KNOX TAYLOR, Supervising Architect. 5-2t

SEWERAGE SYSTEM.

Borough of Delford, Bergen County, N. J.

Sealed proposals for furnishing materials and constructing a System of Sanitary Sewers and Septic Tank for the Borough of Delford, Bergen County, New Jersey, will be received by the Mayor and Council of said Borough, 8.15 o'clock p. m., on Aug. 15, 1904, and will be opened by said Council at the Council Chambers at aforesaid time and date.

The work includes:

About five (5) miles of vitrified pipe and specials, varying in diameter from 8 ins. to 20 ins.

About 90 manholes.

About 16 flush-tanks, etc.

Copies of specifications, drawings and blank forms of proposals for the work may be obtained from the Engineer, P. E. Van Buskirk, Rutherford, N. J., or at the office of A. Landmann, Oradell, N. J., on and after Wednesday, Aug. 3, 1904.

Each proposal must be accompanied by a certified check on a National Bank for the sum of Four Thousand ($4,000) Dollars. The successful bidder will be required to give satisfactory bonds for the faithful performance of the contract.

AARON ACKERMAN,
Mayor.
HENRY A. BINGHAM,
Borough Clerk.
P. E. VAN BUSKIRK, Engineer,
Rutherford, New Jersey. 5-2t

STEEL STORAGE STAND PIPE.

Great Falls, Montana, Aug. 1, 1904.

Sealed bids will be received by the City Clerk of the City of Great Falls, Montana, until 8 o'clock p. m., September 5, 1904, for the furnishing and erecting of a steel storage stand-pipe, 40 ft. in diameter by 60 ft. high.

Plans, specifications, etc., will be sent on request by D. L. Ellis, City Engineer, Great Falls, Montana.

$500 certified check or New York Draft required.

The right is reserved to reject any and all bids. J. E. MORAN,
City Clerk.
D. L. ELLIS, City Engineer. 5-2t

NOTICE TO CONTRACTORS.—City of Manila.—Office of the Municipal Board, Manila, P. I., June 10, 1904.—Sealed proposals will be received at this office until 12 o'clock noon of the first day of December, 1904, for the construction of the superstructure for a Bridge over the Pasig River, in the City of Manila, in accordance with the plans on file at the office of the City Engineer. Bids will be received (1st) for the delivery and erection of the structure complete in every respect and ready for use; (2d) for the delivery at the wharf in Manila, free from all encumbrances, all the structural material of every sort, ready for the erection of the bridge complete. Each bid shall be accompanied by (1st) a stress sheet showing the maximum live and dead load stresses in each member, together with the gross and net sections and the material of which each member is to be composed; (2d) a certified check, payable to the City of Manila, in the sum of five thousand ($5,000) dollars United States currency, as a guaranty that the contractor will within ten (10) days from the awarding of the contract enter into contract with the City of Manila for the faithful performance of all the work above specified. A bond of ten (10%) per cent. of the accepted bid will be required for the faithful performance and completion of the contract within a period of fifteen months from the date of signing the contract. Printed forms for bids, plans and all necessary information may be obtained at the office of the City Engineer, Manila, P. I.; Engineering News Publishing Co., 220 Broadway, New York City, and the Bureau of Insular Affairs, Washington, D. C. The right is reserved by the City of Manila to reject any or all bids and to waive any defects. By direction of the Board. JNO. M. TUTHER, Secretary. 5-9teow

DEPARTMENT OF THE INTERIOR, United States Geological Survey, Reclamation Service, Washington, D. C., July 29, 1904.—Sealed proposals, in duplicate, will be received at the office of the U. S. Reclamation Service, at Montrose, Colorado, until 10 o'clock a. m., October 5, 1904, for the construction of the Gunnison Tunnel and approaches, involving 30,000 lin. ft., more or less, of tunnel and about 120,000 cu. yds. of excavation in open cut at the lower portal, the same being a portion of a system for the diversion of about 1,300 cu. ft. of water per second from the Gunnison River to the Uncompahgre Valley, Colorado. Specifications, form of proposal, and plans may be inspected after August 10, 1904, at the office of the Chief Engineer of the U. S. Reclamation Service, Washington, D. C.; at the office of the District Engineer, U. S. Reclamation Service, Chamber of Commerce Building, Denver, Colo.; or at the office of the U. S. Reclamation Service, Montrose, Colo. Each bid must be accompanied by a certified check for $10,000, payable to the Secretary of the Interior, as a guaranty that the bidders will, if successful, promptly execute a satisfactory contract and furnish bond in the sum of $150,000 for the faithful performance of the work. The right is reserved to reject any or all bids, and to waive technical defects, as the interests of the service may require. Bidders are invited to be present. Proposals must be marked "Proposals for the construction of the Gunnison Tunnel, Uncompahgre Valley Project." THOS. RYAN, Acting Secretary. 5-9t

IMPROVING FILTRATION PLANT.

Department of Publi[illegible] Works
Bureau [illegible] Filtration,
Office of the Director, Room [illegible] City Hall,
Philadelphia, Pa., [illegible] 30, 1904.

Sealed proposals, endorsed [illegible] Bids for Improvement, Extension and [illegible]ration of the Water Supply," and addressed [illegible] the undersigned, at the office above m[illegible]ned, will be received until 12 o'clock noon [illegible] August 11, 1904, for

Contract No. 59—Sand Wash[illegible] and Ejector Pipes for the Torresdale [illegible]rs.

Contract No. 73—Washers, [illegible] and Piping for Foundation Bolts of E[illegible], Lardners Point Pumping Station No [illegible]

Copies of specifications, dra[illegible] and blank forms of proposals for the ab[illegible] work can be obtained at Room 710, City [illegible], under the regulations of the Bureau.

No bid will be considered [illegible]less accompanied by a certificate from the [illegible]y Solicitor that the provisions of an ordin[illegible]e requiring proposal bonds when the bi[illegible] exceed in amount five hundred dollars, [illegible]roved May 25, 1860 (p. 81, West), have [illegible]n complied with.

The Director reserves to him[illegible]f the right to reject any or all bids, as he m[illegible]y deem best for the interests of the city.

PETER E. COSTELLO,
5-1t Director.

ASPHALT PAVING.

Columbus, Ind.

Sealed bids will be received by the Common Council of Columbus, Indiana, on Aug. 18, 1904, at 8 o'clock p. m., for the construction of more asphalt pavement on Washington St. Plans and specifications on file in the office of the clerk of said city.

KARL H. VALLAND,
City Clerk.
LEVI HEGE,
City Civil Engineer. 5-1t

TREASURY DEPARTMENT, Office of the Supervising Architect, Washington, D. C., July 30, 1904.—Sealed proposals will be received at this office until 3 o'clock p. m. on the 15th day of September, 1904, and then opened, for the construction (including plumbing, heating apparatus, electric wiring and conduits) of the U. S. Post Office and Custom House at Grand Haven, Michigan, in accordance with drawings and specification, copies of which may be had at this office, or at the office of the Postmaster at Grand Haven, Mich., at the discretion of the Supervising Architect. JAMES KNOX TAYLOR, Supervising Architect. 5-2t

PROPOSAL ADVERTISEMENTS in Engineering News

The following table is a summary of the proposal advertisements which appeared in **Engineering News** in June (5 weeks).

Construction work of **ALL KINDS** advertised in **Engineering News** reaches the notice of the leading contractors and supply firms in America.

If proposals are wanted from responsible firms it is only necessary to insert an advertisement in **Engineering News.** For 30 years this journal has been recognized as the leading medium by which to reach contractors and supply firms. This is proved by the fact that this journal carries nearly as much proposal advertising as do all the other engineering papers in America combined. The rate is only $2.40 an inch.

Competition Is Bound to Save Money

	Ins.	No. of Advts
Sewers and Sewage Disposal..	12[illegible]	36
Buildings	68	44
Electric Light and Power....	23	11
Paving and Road Building...	222	59
Bridges and Metal Work......	57	20
Water Works	136	35
Dredging, Excavating, etc....	90	50
Garbage Crematory	4	2
Railway Work	8	5
Municipal Supplies	8	3
Bonds	5	1

For other Proposal Advertisements see pages 35, 36, of Advertisements and Construction News pages 61, 62.